

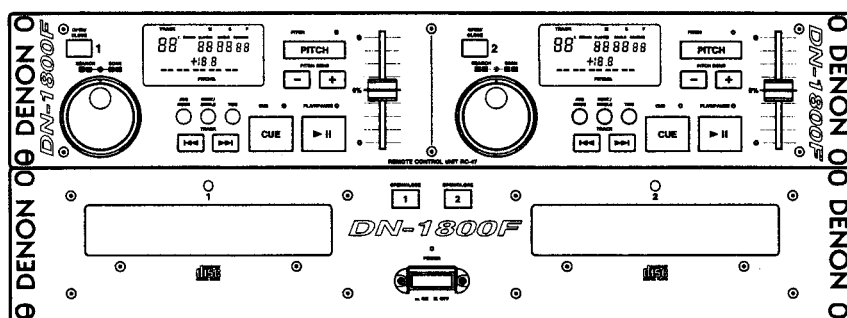
DENON

Hi-Fi Component

SERVICE MANUAL

MODEL DN-1800F

DOUBLE CD PLAYER



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• Some illustrations using in this service manual are slightly different from the actual set.

NIPPON COLUMBIA CO., LTD.

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

SPECIFICATIONS

GENERAL

Type:	Twin mechanism compact disc player with wired remote control		
Disc Type:	Standard compact discs (12 cm and 8 cm discs)		
Dimensions:	Player unit:	482 (W) × 88 (H) × 252 (D) mm (without feet)	
	Remote control unit:	482 (W) × 88 (H) × 62 (D) mm (without feet)	
Installation:	19-inch rack mountable		
	Player unit:	2U	
	Remote control unit:	2U	
	Player unit:	6 kg	
	Remote control unit:	1.5 kg	
Power Supply:	U.S.A. & Canada model:	120 V AC	±10 %, 60 Hz
	Europe & U.K. model:	230 V AC	±10 %, 50 Hz
Power Consumption:	17 W		
Environmental Conditions:	Operational temperature:	5 to 35 °C (41 to 95 ±F)	
	Operational humidity:	25 to 85 % (no condensation)	
	Storage temperature:	-20 to 60 °C (4 to 140 °F)	

AUDIO SECTION

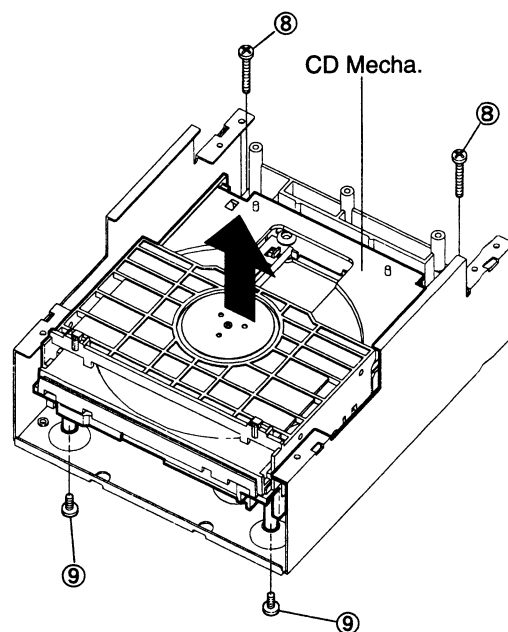
Quantization:	16-bit linear per channel
Sampling Frequency:	44.1 kHz at normal pitch
Oversampling Rate:	8 times
Frequency response:	20 to 20,000 Hz
Analog output	
Output Level:	20 V
Digital Output:	
Signal Format:	SPDIF
Output Level:	0.5 Vp-p 75 Ω/ohms
Load impedance:	10 kΩ/kohms or more

FUNCTIONS

Instant Start:	Within 30 msec.
Variable Pitch:	±10 % or more
Pitch Bend:	±32 % or more
Search Precision:	1/75 sec (1 subcode frame)
Max. Scan Speed:	Over 20 times normal speed

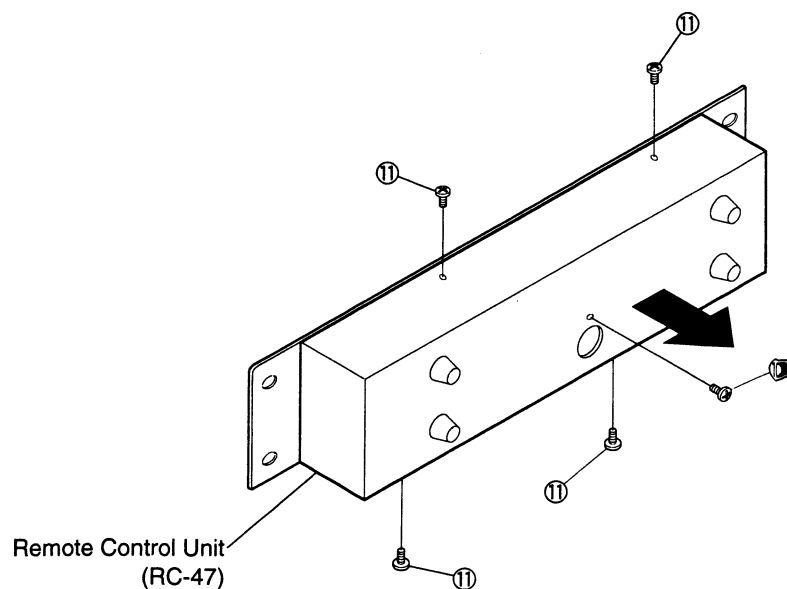
CD Mecha.

1. Remove 2 upper screws ⑧, and 2 lower screws ⑨.
2. Detach CD Mecha.



Cover (Remote Control Unit)

1. Remove 5 screws (1 × ⑩ and 4 × ⑪).



CONFIRMING THE SERVO

CAUTION:

The Optical Pick-up used for CD player may invite deflection by an external noise, such as electrostatic, etc., please pay the following attention.

1. Use a conductive mat on a working table to avoid electrostatic charge.
2. A working personnel should use a wrist strap to ground human body.
3. Tools, etc., specially for a soldering iron must use with its tip grounded and without leakage of electricity. Utmost care must be taken to your clothes for electrostatic charging in a low humidity environment.

Required Measuring Implement

1. Dual trace oscilloscope
2. Reference disc (TCD784 or CO-74176)

1. Actuating the Service Program and Servo Confirming Method

1. Turn the power switch off.
2. While simultaneously pushing the CD1's PITCH button and CD2's OPEN/CLOSE button, turn the power on.
3. Displayed indication is version number of microcomputer program.
4 figures on the left are program version of remote control, and 4 figures on the right are program version of main body mechanism.
4. Press TRACK button. Display shows " 1 " and each pressing of PLAY/PAUSE button opens or closes the tray.
5. As the tray opens, set the adjustment disc (TCD784 or CO-74176)
6. Press TRACK button (" 2 " is displayed), also, press PLAY/PAUSE button.
Tracking error signal can be observed with the connection below. (Fig1)
7. Press TRACK button (" 3 " is displayed), also, press PLAY/PAUSE button.
HF signal can be observed with the connection below. (Fig2)
8. Press TRACK button (" 4 " is displayed), also, press PLAY/PAUSE button.
By turning JOG DIAL servo automatic adjustment value can be called. (Ref. Table below)

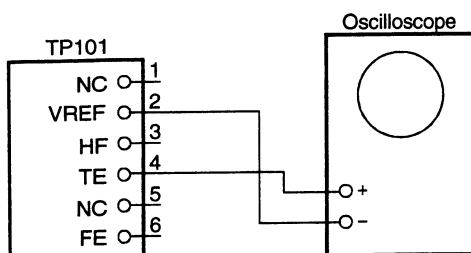


Fig1

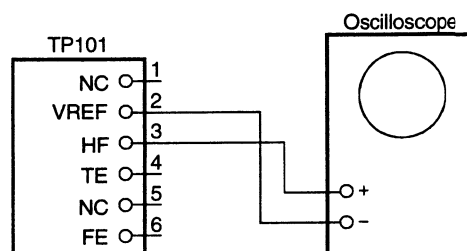


Fig2

TRACK Portion Indication	Adjustment Item	Adjustment Value indication at MIN and SEC portions.
1	Focus Gain (FG)	154 ~ 804
2	Focus Balance (FBAL)	-125 ~ 125
3	Focus Offset (FOFS)	-35 ~ 35
4	Tracking Gain (TG)	102 ~ 645
5	Tracking Balance (TBAL)	-110 ~ 86
6	Tracking Offset (TOFS)	-15 ~ 15

* When adjustment range exceeds, replace pick-up.

2. What is Service Program

Service program is a special program intended for confirming servo.

3. Contents of Service Program

While simultaneously pushing the CD1's PITCH and CD2's OPEN/CLOSE buttons, turn the power on.

After actuating the service program, select an aiming process number with the TRACK +/-, SINGLE/CONT. button, JOG MODE button, and TIME button, and push the PLAY/PAUSE button to execute processing. The process number is then displayed on the TRACK indication portion.

	Work No. (TRACK Indication)	Function	Contents
TRACK +/- button	01	OPEN/CLOSE	Performs OPEN/CLOSE each time when the PLAY/PAUSE button is pushed.
	02	Tracking Error	Check tracking error signal, then performs the Automatic Adjustment.
	03	HF Signal	Check HF signal.
	04	Automatic Adjustment call	Turn the JOG dial to display the Automatic Adjustment data.
	05	Cleaning of Pick-up Lens	Tray opens and pick-up moves out of mechanism, and clean the lens.
	06	Focus Gain Changing	Select Gain with JOG dial. Press PLAY/PAUSE button, the display lights that will be newly memorized in EEPROM. Selectable level appears on the indicator MIN, while current Focus Gain level appears on the SEC. When select data becomes big or small, the Gain is up or down. In normal, do not change the data that is set by 5. The set No. stored in the EEPROM:
	07	Tracking Gain Changing	Select Gain with JOG dial. Press PLAY/PAUSE button, the display lights that will be newly memorized in EEPROM. Selectable level appears on the indicator MIN, while current Tracking Gain level appears on the SEC. When select data becomes big or small, the Gain is up or down. In normal, do not change the data that is set by 3. When sound out is occurred by oscillation, please raise the Gain. But there is sound out easily by defective disc. The set No. stored in the EEPROM:
	08	Error Code Check	Turn the JOG dial to display the logging error codes in the occurred order. Three error logs are memorized at maximum. Kinds of Error Code, displayed (1) Error Code Table (Appears only at Heat Run and Chucking Test function) (2) E204 Servo down during cue (3) E205 Servo down during pause (4) E206 Servo down during manual search and scan (5) E213 Unable to read the subcode during cue (6) E214 Unable to read the subcode during pause (7) E215 Unable to read the subcode during the manual search and scan The memorized error codes are erased when pushing the PLAY/PAUSE button while pressing the CUE button.
	09	Total Running Time	Total time span of servo function that counted by the hour is displayed. The display time is less than 65535 hours. Note: No time is counted if powered down within 59 minutes. The memorized error codes are erased when pushing the PLAY/PAUSE button while pressing the CUE button.

	Work No. (TRACK Indication)	Function	Contents
TIME button	H1	Heat Run	All tracks are played back if the track is less than 20, playbacks only the first and the last tracks on the disc when the track is more than 21.
JOG MODE button	H2	Chucking Test	Repeats OPEN/CLOSE of tray, servo ON, TOC read and displays the number of the tray OPEN/CLOSE times with the Time indicator. When an error occurs, displays error code and stops.
SINGLE/CONT. button	H3	Playing Test	Selecting this mode and pushing the PLAY/PAUSE button starts $0.7 \times$ speed playback, but with no sound. One more pushing of the PLAY/PAUSE button during playback changes it to be $1.4 \times$ speed playback. Desired track can be selected with the TRACK +/- button during playback. The following are displayed on each indicators, <ul style="list-style-type: none"> ● TRACK: Track number ● FRAME: Playback speed 1 or 2 (1=1, 2=1.4)

Error Code Table (Appears only at Heat Run and Chucking Test function)

Error Code at TRACK portion	Contents No. at m portion	Contents
E1	00	Automatic Adjustment Error
	01	Unable to detect disc
	02	Unable to adjust tracking offset
	03	Unable to adjust focus offset
	04	Unable to adjust focus fine gain
	05	Unable to actuate focus
	06	Unable to actuate tracking
E2	00	Unable to adjust tracking fine gain
	01	Servo down during playback
	02	Servo down during search
	03	Servo down during automatic adjustment
	10	Servo down during TOC read
	11	Unable to read the subcode between 500 msec. during the playback
	12	Unable to read the subcode between 1 sec. during the search
E3	00	Unable to read the subcode between 500 msec. during the TOC read
E4	00	Unable to read TOC
	01	Unable to close the disc holder in the regular time
E5	01	Unable to open the disc holder in the regular time
	00	Slide error
	01	Slide error during search

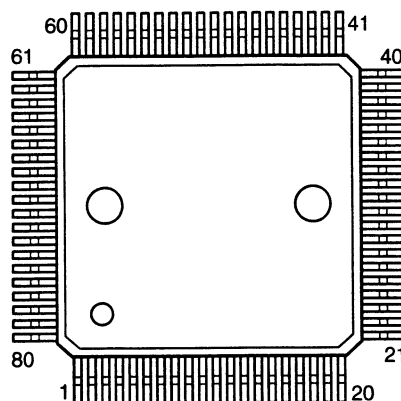
Detailed error can be displayed by select knob when error occurs.

Error indication			
TR	MIN	SEC	FRAM
Error Code	Contents No.	Accumulated number of open/close function of the tray prior to Error occurs.	
Indication state when error occurs			
01	FG data		
02	FBAL data		
03	FOFS data		
04	TG data		
05	TBAL data		
06	TOFS data		

SEMICONDUCTORS

● IC's

MN662724RPE (Main unit: IC101) CD SERVO PROCESSOR

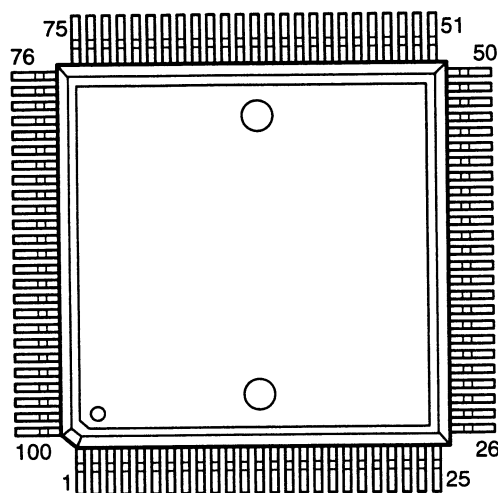


MN662724RPE Terminal Function

Pin No.	Symbol	I/O	Function
1	BCLK	O	Bit clock output for SRDATA.
2	LRCK	O	L,R discrimination signal output.
3	SRDATA	O	Serial data output.
4	DVDD1	—	Power supply for digital circuit.
5	DVSS1	—	GND for digital circuit.
6	TX	O	Digital audio interface output signal.
7	MCLK	I	Microcomputer command clock signal input (latches data at rising edge).
8	MDATA	I	Microcomputer command data input.
9	MLD	I	Microcomputer command load signal input. ("L": load)
10	SENSE	O	Sens signal output (OFT,, FESL,, NACEND,, NAJEND,, POSAD,, SFG).
11	FLOCK	O	Focus servo draw in signal ("L": draw in state).
12	TLOCK	O	Tracking servo draw in signal ("L": draw in state).
13	BLKCK	O	Subcode block clock signal (fGLKCK=75Hz).
14	SQCK	I	External clock input for subcode Q register.
15	SUBQ	O	Subcode Q code output.
16	DMUTE	I	Muting input ("H": mute).
17	STAT	O	Status signal (CRC,, CUE,, CLVS,, TTSTOP,, FCLV,, SQOK).
18	RST	I	Reset input ("L": reset).
19	SMCK	O	8.4672MHz clock signal output at MSEL="H". 4.2336MHz clock signal output at MSEL="L".
20	PMCK	O	88.2kHz clock output.
21	TRV	O	Traverse forcible sending output.
22	TVD	O	Traverse drive output.
23	PC	O	Spindle motor ON signal ("L": ON).
24	ECM	O	Spindle motor drive signal (forcible mode output). 3-state.
25	ECS	O	Spindle motor drive signal (servo error signal output).
26	KICK	O	Kick pulse output.
27	TRD	O	Tracking drive output.
28	FOD	O	Focus drive output.
29	VREF	I	Reference voltage for DA output portion (TVD,BCS,TRD,FOD,FBAL,TBAL).
30	FBAL	O	Focus balance adjusting output.

Pin No.	Symbol	I/O	Function
31	TBAL	O	Tracking balance adjusting output.
32	FE	I	Focus error signal input (analog input).
33	TE	I	Tracking error signal input (analog input).
34	RFENV	I	RF envelope signal input (analog input).
35	VDET	I	Vibration detecting signal input ("H": detect).
36	OFT	I	Off track signal input ("H": off track).
37	TRCRS	I	Track cross signal input.
38	RFDET	I	RF detecting signal input ("L": detect).
39	BDO	I	Drop out signal input ("H": drop out).
40	LDON	O	Laser ON signal output ("H": ON).
41	PLL2	I/O	Loop filter terminal for PLL.
42	PLAY	O	Play signal output ("H": play).
43	WVEL	O	Double speed status signal output.
44	ARF	I	RF signal input.
45	IREF	I	Reference current input terminal.
46	DRF	I	Bias terminal for DSL.
47	DSL2	I/O	Loop filter terminal for DSL.
48	PLL1	I/O	Loop filter terminal for PLL.
49	VCOF	I/O	Loop filter terminal for VCO.
50	AVDD2	—	Power supply for analog circuit (for DSL, PLL, DA output sections).
51	AVSS2	—	GND for analog circuit (for DSL, PLL, DA output sections).
52	CK384	O	384 fs clock output.
53	PCK	O	PLL extract clock output (fPCK=4.321MHz).
54	TOFS	O	Tracking offset adjust signal output.
55	SUBC	O	Subcode serial output data output.
56	SBCK	I	Clock input for subcode serial output.
57	VSS	—	GND for osc. circuit.
58	X1	I	X'tal osc. circuit input terminal. f=16.9344MHz or 33.8688MHz.
59	X2	O	X'tal osc. circuit output terminal (use 33.8688MHz at double speed PB).
60	VDD	—	Power supply for osc. circuit.
61	BYTCK	O	Byte clock output.
62	CLDCK	O	Subcode frame clock signal output (fCLDCK=7.35kHz).
63	FCLK	O	X'tal frame clock output (fFCLK=7.35kHz).
64	IPFLAG	O	Interpolation flag output ("H": interpolation).
65	FLAG	O	Flag output.
66	CLVS	O	Spindle servo phase sync state signal output ("H": CLV, "L": rough servo).
67	CRC	O	Subcode CRC check result output ("H": OK, "L": NG).
68	DEMPH	O	Deemphasis detecting signal output ("H": ON).
69	RESY	O	Flag 6 output at SSEL="H" (RAM address reset generating signal by Jitter margin over of CLV servo. "L": address reset generates). RESY output at SSBL="L" (Re-sync signal output of frame sync. "H": sync, "L": out sync).
70	SDAT48	O	48 fs serial data output.
71	TEST	I	Test terminal (normally "H").
72	AVDD1	—	Power supply for digital circuit.
73	LRCK48	O	48 fs L, R discrimination signal output.
74	AVSS1	—	GND for digital circuit.
75	BCLK48	O	48 fs bit clock output for SDAT48.
76	RSEL	I	RF signal polarity specify terminal (RSEL="H" at brightness level "H". RSEL="L" at brightness level "L").
77	CSEL	I	X'tal osc. frequency specify terminal, X'tal osc. freq. 33.8688MHz: CSEL="H", 16.9344MHz: CSEL="L".
78	PSEL	I	Test terminal (normally "L").
79	MSEL	I	SMCK terminal. Output frequency shifting terminal ("H": SMCK=8.4672MHz, "L": SMCK=4.2336MHz).
80	SSEL	I	Sub Q terminal. Output mode shifting terminal ("H": Q code buffer using mode).

MN102L62GAA (Main unit: IC102)
SYSTEM μ COM

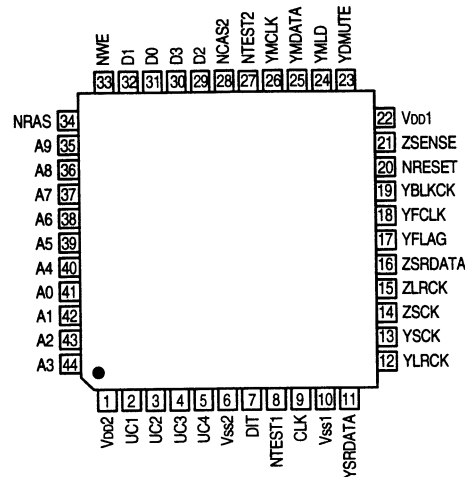


MN102L62GAA Terminal Function

Pin No.	Pin Name	Symbol	I/O	DET	Ext	Ini	Res	Function
1	P60	CDSEL	I	—	—	—	—	Mecha. No. select signal, L: Mecha.1, H: Mecha.2
2	P61	RESERVE	O	—	—	L	—	Not used, open
3	P62	TP	O	—	—	L	—	Test terminal for service mode
4	P63	RESERVE	O	—	—	L	—	Not used, open
5	P50	RESERVE	O	—	—	L	—	Not used, open
6	P51	RESERVE	O	—	—	L	—	Not used, open
7	P52	RESERVE	O	—	—	L	—	Not used, open
8	P53	RESERVE	O	—	—	L	—	Not used, open
9	P54	LDOUT_	I	—	Pu	—	H	Tray open end signal
10	P55	LDIN_	I	—	Pu	—	H	Tray close end signal
11	P56	RESERVE	O	—	—	L	—	Not used, open
12	P57	RESERVE	O	—	—	L	—	Not used, open
13	P20	RESERVE	O	—	—	L	—	Not used, open
14	P21	RESERVE	O	—	—	L	—	Not used, open
15	P22	RESERVE	O	—	—	L	—	Not used, open
16	P23	RESERVE	O	—	—	L	—	Not used, open
17	Vdd	Vdd	—	—	—	—	—	Power (+5.0V)
18	SYSCLK	SYSCLK	O	—	—	—	—	System clock output (OSCI \times 1/2), not used
19	Vss	Vss	—	—	—	—	—	GND (0V)
20	XI	XI	I	—	—	—	—	Fixed to GND
21	XO	XO	O	—	—	—	—	Not used, open
22	Vdd	Vdd	—	—	—	—	—	Power (+5.0V)
23	OSCI	OSCI	I	—	—	—	—	X'tal input terminal, 12.288MHz
24	OSCO	OSCO	O	—	—	—	—	X'tal output terminal
25	MODE	MODE	I	—	—	—	—	Fixed to H, H: Single chip mode
26	P24	RESERVE	O	—	—	L	—	Not used, open
27	P25	RESERVE	O	—	—	L	—	Not used, open
28	P26	RESERVE	O	—	—	L	—	Not used, open
29	P27	RESERVE	O	—	—	L	—	Not used, open
30	P30	RESERVE	O	—	—	L	—	Not used, open
31	P31	RESERVE	O	—	—	L	—	Not used, open
32	P32	RESERVE	O	—	—	L	—	Not used, open
33	P33	RESERVE	O	—	—	L	—	Not used, open
34	Vdd	Vdd	—	—	—	—	—	Power (+5.0V)
35	P34	RESERVE	O	—	—	L	—	Not used, open
36	P35	RESERVE	O	—	—	L	—	Not used, open
37	P36	RESERVE	O	—	—	L	—	Not used, open

Pin No.	Pin Name	Symbol	I/O	DET	Ext	Ini	Res	Function
38	P37	RESERVE	O	—	—	L	—	Not used, open
39	P40	RESERVE	O	—	—	L	—	Not used, open
40	P41	RESERVE	O	—	—	L	—	Not used, open
41	P42	RESERVE	O	—	—	L	—	Not used, open
42	P43	SCL	O	—	Pu	—	—	X24C00 data clock
43	Vss	Vss	—	—	—	—	—	GND (0V)
44	P44	SDA	I/O	—	Pu	—	—	X24C00 data (normal input)
45	P45	CONT1	I	—	Pu	—	H	External control signal 1
46	P46	CONT2	I	—	Pu	—	H	External control signal 2
47	P47	MC_/RC	I	—	—	—	—	L: Mecha. mode, H: RC mode, fixed to L
48	P80	RESERVE	O	—	—	L	—	Not used, open
49	P81	YDMUTE	O	—	Pd	L	L	SM5905AF forcible mute, H: Mute
50	P82	SMRST_	O	—	Pd	L	L	SM5905AF reset signal
51	P83	YMLD_	O	—	Pu	H	H	SM5905AF data latch signal
52	P84	ZSENSE	I	—	—	—	—	SM5905AF status signal
53	P85	MCLK	O	—	—	H	—	MN662724, SM5905AF, BU2616 clock signal
54	Vdd	Vdd	—	—	—	—	—	Power (+5.0V)
55	P86	MDATA	O	—	—	H	—	MN662724, SM5905AF, BU2616 data signal
56	P87	RESERVE	O	—	—	L	—	Not used, open
57	P90	MLD_	O	—	Pu	H	H	MN662724 data latch signal
58	P91	RESERVE	O	—	—	L	—	Not used, open
59	P92	SENSE	I	—	—	—	—	MN662724 servo activate status input signal
60	P93	FLOCK_	I	—	—	—	—	MN662724 focus servo-on input signal
61	Vss	Vss	—	—	—	—	—	GND (0V)
62	P94	TLED	O	—	Pd	L	L	Tray LED, H: Light
63	P95	TLOCK_	I	—	—	—	—	MN662724 tracking servo-on input signal
64	P96	STAT	I	—	—	—	—	MN662724 servo status input signal (TLOCK included)
65	P97	MNRST_	O	—	Pd	L	L	MN662724 reset signal
66	Vdd (Vpp)	Vdd	—	—	—	—	—	Power (+5.0V)
67	SBTO	SQCK	O	—	Pu	H	H	MN662724 sub-code read out clock signal
68	SBO	SUBQ	I	—	Pu	—	H	MN662724 sub-code data input signal
69	P72	RESY	I	—	—	—	—	MN662724 frame sync re-sync signal, H: Sync
70	P73	EJECT_	I	—	Pu	—	—	Disc holder open/close SW input signal
71	SBI1	RXD	I	—	Pu	—	H	RC data receive
72	SBO1	TXD	O	—	Pu	H	H	RC data send
73	TEST1	TEST1	I	—	—	—	—	Fixed with 47k pull-up
74	TEST2	TEST2	I	—	—	—	—	Fixed with 47k pull-up
75	NMI_	NMI	I	—	—	—	—	Fixed to 5V
76	PA0, IRQ0_	BLKCK	I	Ed	—	—	—	MN662724 sub-code input (interrupt)
77	PA1, IRQ1_	ENFA	O	—	Pu	—	H	SM5882
78	PA2, IRQ2_	RESERVE	O	—	—	L	—	Not used, open
79	PA3, IRQ3_	INSW_	I	Lv	Pu	—	H	Slide inner circle SW input
80	PA4, IRQ4_	BSYIN_	I	Lv	Pu	—	H	RC serial TXD line in-use input signal, L: In-use
81	ADSEP_	ADSEP	I	—	—	—	—	Fixed to 5V, H: Address/data separate mode
82	RST_	RST_	I	—	—	—	—	μcom reset
83	Vdd	Vdd	—	—	—	—	—	Power (+5.0V)
84	P00	BSYOUT_	O	—	Pu	H	H	RC serial TXD line in-use output signal, L: In-use
85	P01	RESERVE	O	—	—	L	—	Not used, open
86	P02	RESERVE	O	—	—	L	—	Not used, open
87	P03	PLAY	O	—	—	L	—	In-tracing signal, H: Trace
88	P04	AMUTE	O	—	Pu	H	H	Analog mute signal
89	P05	OPEN_	O	—	Pu	L	H	Tray open SW
90	P06	CLOSE_	O	—	Pu	L	H	Tray close SW
91	P07	MCE_	O	—	Pd	L	L	BU2616 enable signal
92	Vss	Vss	—	—	—	—	—	GND (0V)
93	P10	RESERVE	O	—	—	L	—	Not used, open
94	P11	RESERVE	O	—	—	L	—	Not used, open
95	P12	RESERVE	O	—	—	L	—	Not used, open
96	P13	RESERVE	O	—	—	L	—	Not used, open
97	P14	RESERVE	O	—	—	L	—	Not used, open
98	P15	RESERVE	O	—	—	L	—	Not used, open
99	P16	RESERVE	O	—	—	L	—	Not used, open
100	P17	RESERVE	O	—	—	L	—	Not used, open

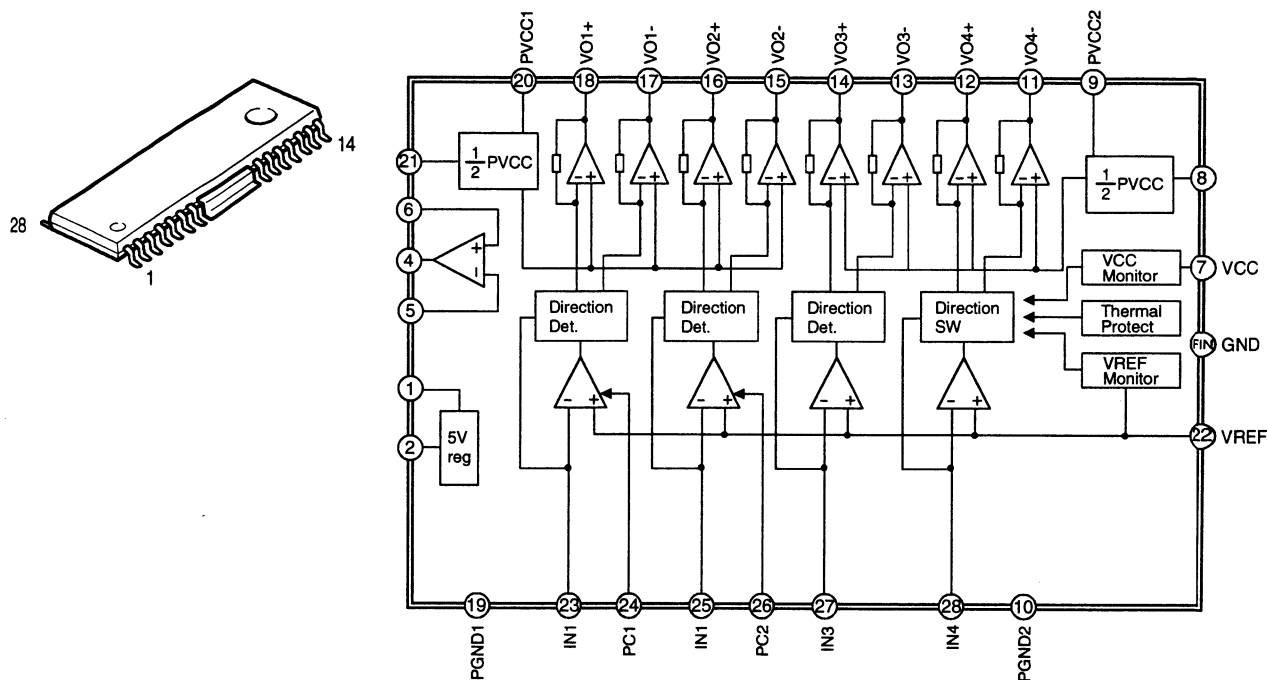
SM5905AF (Main unit)
(IC103)
Shock Proof Memory Controller



SM5905AF Terminal Function

Pin No.	Pin Name	I/O	Function
1	VDD2	—	VDD power terminal
2	UC1	IP/O	μcom interface expansion I/O 1
3	UC2	IP/O	μcom interface expansion I/O 2
4	UC3	IP/O	μcom interface expansion I/O 3
5	UC4	IP/O	μcom interface expansion I/O 4
6	VSS2	—	GND
7	DIT	O	Digital audio interface terminal
8	NTEST1	IP	Test terminal
9	CLK	I	16.9344MHz clock input
10	VSS1	—	GND
11	YSRDATA	I	Audio serial input data
12	YLRCK	I	Audio serial input LR clock, H: Lch
13	YSCK	I	Audio serial input bit clock
14	ZSCK	O	Audio serial output bit clock
15	ZLRCK	O	Audio serial output LR clock, H: Lch
16	ZSRDATA	O	Audio serial output data
17	YFLAG	I	RAM over-flow flag for signal processing, L: Over
18	YFCLK	I	X'tal system frame clock
19	YBLKCK	I	Sub-code block clock signal
20	NRESET	I	System reset terminal, L: Reset
21	ZSENSE	O	μcom interface status output
22	VDD1	—	VDD power terminal
23	YDMUTE	I	Forcible mute terminal, H: Mute
24	YMLD	I	μcom interface latch clock
25	YMDATA	I	μcom interface serial data
26	YMCLK	I	μcom interface shift clock
27	NTEST2	IP	Test terminal
28	NCAS2	O	DRAM2/CAS control (for external DRAM)
29	D2	IP/O	DRAM data input/output 2
30	D3	IP/O	DRAM data input/output 3
31	D0	IP/O	DRAM data input/output 0
32	D1	IP/O	DRAM data input/output 1
33	NWE	O	DRAM/WE control
34	NRAS	O	DRAM/RAS control
35	A9	O	DRAM address 9
36	A8	O	DRAM address 8
37	A7	O	DRAM address 7
38	A6	O	DRAM address 6
39	A5	O	DRAM address 5
40	A4	O	DRAM address 4
41	A0	O	DRAM address 0
42	A1	O	DRAM address 1
43	A2	O	DRAM address 2
44	A3	O	DRAM address 3

AN8816SB (Main unit: IC104) PU DRIVER



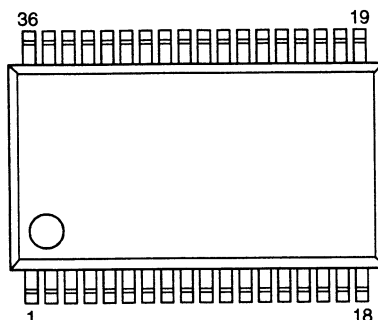
AN8816SB Terminal Function

Pin No.	Symbol	Function
1	IB	5Vreg external transistor base control terminal
2	VMON	5V regulator output monitor terminal
3	NC	No connection
4	OPO	OP-amp output terminal
5	IN-	OP-amp inverted input terminal
6	IN+	OP-amp non-inverted input terminal
7	Vcc	Power supply terminal
8	1/2PVCC2	1/2 PVCC output terminal 2
9	PVCC2	Power supply terminal 2 for driver
10	PGND2	Ground terminal 2 for driver
11	VO4-	Motor driver 4 inverted output terminal
12	VO4+	Motor driver 4 non-inverted output terminal
13	VO3-	Motor driver 3 inverted output terminal
14	VO3+	Motor driver 3 non-inverted output terminal

Pin no.	Symbol	Function
15	VO2-	Motor driver 2 inverted output terminal
16	VO2+	Motor driver 2 non-inverted output terminal
17	VO1-	Motor driver 1 inverted output terminal
18	VO1+	Motor driver 1 non-inverted output terminal
19	PGND1	Ground terminal 1 for driver
20	PVCC1	Power supply terminal 1 for driver
21	1/2PVCC1	1/2 PVCC output terminal 1
22	VREF	VREF input terminal
23	IN1	Motor driver 1 input terminal
24	PC1	PC (power cut) input terminal 1
25	IN2	Motor driver 2 input terminal
26	PC2	PC (power cut) input terminal 2
27	IN3	Motor driver 3 input terminal
28	IN4	Motor driver 4 input terminal

Note: FIN grounded

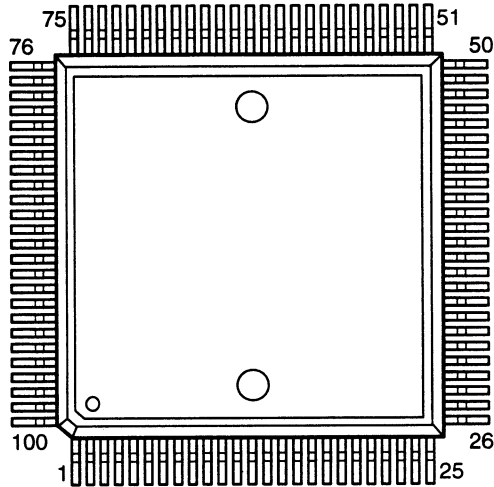
AN8807SB (Main unit: IC105) RF AMP



AN8807 Terminal Function

Pin No	Symbol	I/O	Function
1	PD	I	PD signal input for output monitor of LD.
2	LD	O	Connect to external transistor's base for LD drive.
3	LDON	I	LD APC ON/OFF switching signal.
4	C.CRS	—	Capacitor connecting terminal for CROSS.
5	VCC	—	Power supply connecting terminal.
6	RF	I	RF AMP reversal input terminal. Connect a resistor.
7	RFOUT	O	RF AMP output terminal (reversal AMP).
8	RFIN	I	Input terminal of RF AGC.
9	C. AGC	—	Capacitor connecting terminal for RF AGC loop filter.
10	ARF	O	RF output terminal of after AGC.
11	C. ENV	—	Capacitor connecting terminal for RF.
12	C. EA	—	Capacitor connecting terminal for AMP.
13	C. SBDO	—	Capacitor connecting terminal for low speed detection of dark level DO detection.
14	BDO	O	BDO detection output terminal. Positive logic.
15	C. SBRT	—	Capacitor connecting terminal for low speed detection of OFTR detection.
16	OFTR	O	Output terminal of OFF TRACK detection. Positive logic.
17	NRFDET	O	Output terminal of RF signal amplitude detection. Negative logic.
18	GND	—	GND
19	ENV	O	ENV output terminal.
20	VREF	O	VCC x 0.5(V) output terminal.
21	LD OFF	I	Input terminal of LD APC forcible stop.
22	VDET	O	Output terminal of vibration detection.
23	TEBPF	I	Input terminal of vibration detection.
24	CROSS	O	Output terminal of TE CROSS detection signal.
25	TEOUT	O	Output terminal of TEAMP.
26	TE	I	TEAMP reversal input terminal. Connect a resistor.
27	FEOUT	O	Output terminal of FEAMP.
28	FE	I	FEAMP reversal input terminal. Connect a resistor.
29	FBAL	I	Control signal input terminal of FO balance adjustment.
30	TBAL	I	Control signal input terminal of TE balance adjustment.
31	PDFR	—	Resistor connecting terminal for setting IV converting resistance value of PDE.
32	PDER	—	Resistor connecting terminal for setting IV converting resistance value of PDF.
33	PDE	I	Connect to PIN diode E.
34	PDF	I	Connect to PIN diode F.
35	PDBD	I	Connect to B, D of astigmatism 1/4 divided PD.
36	PDAC	I	Connect to A, C of astigmatism 1/4 divided PD.

MN102L62GAA (Remote unit: IC101)
μCOM

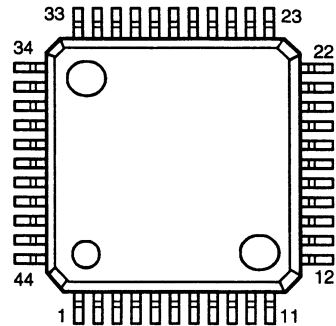


MN102L62GAA Terminal Function

Pin No.	Pin Name	Symbol	I/O	DET	Ext	Ini	Res	Function
1	P60	P60	O	—	—	L	—	Not used, open
2	P61	RESERVE	O	—	—	L	—	Not used, open
3	P62	RESERVE	O	—	—	L	—	Not used, open
4	P63	RESERVE	O	—	—	L	—	Not used, open
5	P50	RESERVE	O	—	—	L	—	Not used, open
6	P51	RESERVE	O	—	—	L	—	Not used, open
7	P52	RESERVE	O	—	—	L	—	Not used, open
8	P53	RESERVE	O	—	—	L	—	Not used, open
9	P54	P54	O	—	—	L	—	Not used, open
10	P55	P55	O	—	—	L	—	Not used, open
11	P56	RESERVE	O	—	—	L	—	Not used, open
12	P57	RESERVE	O	—	—	L	—	Not used, open
13	P20	RESERVE	O	—	—	L	—	Not used, open
14	P21	RESERVE	O	—	—	L	—	Not used, open
15	P22	RESERVE	O	—	—	L	—	Not used, open
16	P23	RESERVE	O	—	—	L	—	Not used, open
17	Vdd	Vdd	—	—	—	—	—	Power (+5.0V)
18	SYSCLK	SYSCLK	O	—	—	—	—	System clock output (OSCI×1/2)
19	Vss	Vss	—	—	—	—	—	GND (0V)
20	XI	XI	I	—	—	—	—	Fixed to GND
21	XO	XO	O	—	—	—	—	Not used, open
22	Vdd	Vdd	—	—	—	—	—	Power (+5.0V)
23	OSCI	OSCI	I	—	—	—	—	X'tal input terminal, 12.288MHz
24	OSCO	OSCO	O	—	—	—	—	X'tal output terminal
25	MODE	MODE	I	—	—	—	—	Fixed to 5V, single chip mode
26	F24	RESERVE	O	—	—	L	—	Not used, open
27	P25	RESERVE	O	—	—	L	—	Not used, open
28	P26	RESERVE	O	—	—	L	—	Not used, open
29	P27	RESERVE	O	—	—	L	—	Not used, open
30	P30	RESERVE	O	—	—	L	—	Not used, open
31	P31	RESERVE	O	—	—	L	—	Not used, open
32	P32	RESERVE	O	—	—	L	—	Not used, open
33	P33	RESERVE	O	—	—	L	—	Not used, open
34	Vdd	Vdd	—	—	—	—	—	Power (+5.0V)
35	P34	RESERVE	O	—	—	L	—	Not used, open
36	P35	RESERVE	O	—	—	L	—	Not used, open
37	P36	RESERVE	O	—	—	L	—	Not used, open

Pin No.	Pin Name	Symbol	I/O	DET	Ext	Ini	Res	Function
38	P37	RESERVE	O	—	—	L	—	Not used, open
39	P40	RESERVE	O	—	—	L	—	Not used, open
40	P41	RESERVE	O	—	—	L	—	Not used, open
41	P42	RESERVE	O	—	—	L	—	Not used, open
42	P43	RESERVE	O	—	—	L	—	Not used, open
43	Vss	Vss	—	—	—	—	—	GND (0V)
44	AN4, P44	RESERVE	O	—	—	L	—	Not used, open
45	AN5, P45	RESERVE	O	—	—	L	—	Not used, open
46	STOP, AN6, P46	RESERVE	O	—	—	L	—	Not used, open
47	P47	MC_/RC	I	—	—	—	—	L: Mecha. mode, H: RC mode, fixed to H
48	TM0IO, P80	SHTL23	I	—	Pu	—	H	CD2 shuttle input 3
49	TM1IO, P81	SHTL22	I	—	Pu	—	H	CD2 shuttle input 2
50	TM2IO, P82	SHTL21	I	—	Pu	—	H	CD2 shuttle input 1
51	TM3IO, P83	SHTL20	I	—	Pu	—	H	CD2 shuttle input 0
52	TM4IO, P84	RESERVE	O	—	—	L	—	Not used, open
53	TM5IO, P85	RESERVE	O	—	—	L	—	Not used, open
54	Vdd	Vdd	—	—	—	—	—	Power (+5.0V)
55	TM6IOA, P86	RESERVE	O	—	—	L	—	Not used, open
56	TM6IOB, P87	RESERVE	O	—	—	L	—	Not used, open
57	TM6IOC, P90	RESERVE	O	—	—	H	—	Not used, open
58	TM7IOA, P91	RESERVE	O	—	—	H	—	Not used, open
59	TM7IOB, P92	FLNCS1	O	—	Pu	H	H	CD1 MN12510F latch signal
60	TM71C, P93	FLNCS2	O	—	Pu	H	H	CD2 MN12510F latch signal
61	Vss	Vss	—	—	—	—	—	GND (0V)
62	AN0, P94	PIT1	I	—	—	—	—	CD1 pitch VR signal
63	AN1, P95	PITC1	I	—	—	—	—	CD1 pitch VR center value signal
64	AN2, P96	PIT2	I	—	—	—	—	CD2 pitch VR signal
65	AN3, P97	PITC2	I	—	—	—	—	CD2 pitch VR center value signal
66	Vdd (Vpp)	Vdd	—	—	—	—	—	Power (+5.0V)
67	SBTO, P70	FLCLK	O	—	Pu	H	H	MN12510F data clock signal
68	S BIO, P71	FLSDO	I	—	—	—	—	MN12510F data input signal
69	SBO0, P72	FLSDI	O	—	—	H	—	MN12510F data output signal
70	SBT1, P73	P73	O	—	—	L	—	Not used, open
71	SBI1, P74	RC-RXD	I	—	Pu	—	H	Data receive from main unit
72	SBO1, P75	RC-TXD	O	—	Pu	H	H	Data send to main unit
73	TEST1	TEST1	I	—	—	—	—	Fixed with 47k pull-up
74	TEST2	TEST2	I	—	—	—	—	Fixed with 47k pull-up
75	NMI_	NMI	I	—	—	—	—	Fixed to 5V
76	PA0, IRQ0_	JOG21	I	Ed	Pu	—	H	CD2 jog input 1, iPu: Internal Pu
77	PA1, IRQ1_	JOG20	I	Ed	Pu	—	H	CD2 jog input 0
78	PA2, IRQ2_	JOG11	I	Ed	Pu	—	H	CD1 jog input 1
79	PA3, IRQ3_	JOG10	I	Ed	Pu	—	H	CD1 jog input 0
80	PA4, IRQ4_	PA4	O	—	—	L	—	Not used, open
81	ADSEP_	ADSEP	I	—	—	—	—	Fixed to 5V, H: Address/data separate mode
82	RST_	RST_	I	—	—	—	—	μcom reset
83	Vdd	Vdd	—	—	—	—	—	Power (+5.0V)
84	P00	SHTL13	I	—	Pu	—	H	CD1 shuttle input 3
85	P01	SHTL12	I	—	Pu	—	H	CD1 shuttle input 2
86	P02	SHTL11	I	—	Pu	—	H	CD1 shuttle input 1
87	P03	SHTL10	I	—	Pu	—	H	CD1 shuttle input 0
88	P04	P04	I	—	—	L	—	Not used, fixed to 0V
89	P05	P05	I	—	—	L	—	Not used, fixed to 0V
90	P06	P06	I	—	—	L	—	Not used, fixed to 0V
91	P07	P07	I	—	—	L	—	Not used, fixed to 0V
92	Vss	Vss	—	—	—	—	—	GND (0V)
93	P10	RESERVE	O	—	—	L	—	Not used, open
94	P11	RESERVE	O	—	—	L	—	Not used, open
95	P12	RESERVE	O	—	—	L	—	Not used, open
96	P13	RESERVE	O	—	—	L	—	Not used, open
97	P14	RESERVE	O	—	—	L	—	Not used, open
98	P15	RESERVE	O	—	—	L	—	Not used, open
99	P16	RESERVE	O	—	—	L	—	Not used, open
100	P17	RESERVE	O	—	—	L	—	Not used, open

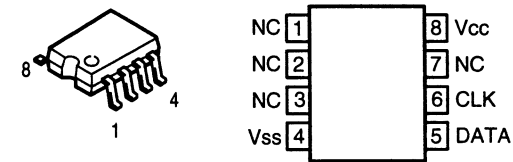
MN12510F (Remote unit: IC201, 301)
FL DRIVER



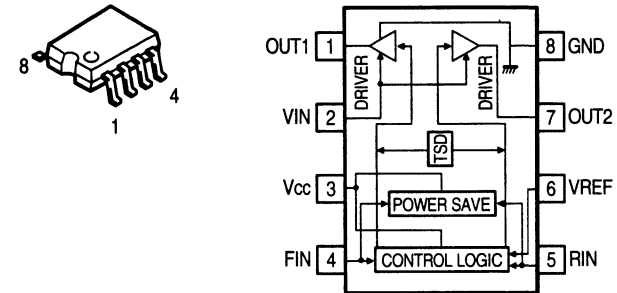
MN12510F Terminal Function

Pin No.	Symbol	I/O	Function
1	P21	O	Segment output15 (hi-voltage proof output).
2	P20	O	LED drive output (hi-voltage proof output).
3	P03	O	No connection.
4	P02	O	No connection.
5	P01	O	Digit output10 (hi-voltage proof output).
6	P00	O	Digit output9 (hi-voltage proof output).
7	DGT7	O	Digit output8 (hi-voltage proof output).
8	DGT6	O	Digit output7 (hi-voltage proof output).
9	DGT5	O	Digit output6 (hi-voltage proof output).
10	DGT4	O	Digit output5 (hi-voltage proof output).
11	NC	—	No connection.
12	DGT3	O	Digit output4 (hi-voltage proof output).
13	DGT2	O	Digit output3 (hi-voltage proof output).
14	DGT1	O	Digit output2 (hi-voltage proof output).
15	DGT0	O	Digit output1 (hi-voltage proof output).
16	Vpp	I	ELP driver power supply, VPP: VDD -35V.
17	NC	—	No connection.
18	VDD	I	Power supply terminal, VDD: +5V ±0.5V.
19	OSC1	I	Clock oscillation input terminal.
20	OSC2	O	Clock oscillation output terminal.
21	Vss	I	Power supply terminal, Vss: 0V.
22	NCS	I	Chip select input, "L": Serial input enable, "H": Disable.
23	SCK	I	Clock input for serial transference.
24	SDI	O	Serial data input terminal.
25	SDO	O	Serial data output terminal.
26	P30	I	Key scan input terminal.
27	P31	I	Key scan input terminal.
28	P32	I	Key scan input terminal.
29	P33	O	LED drive output terminal.
30	P34	O	LED drive output terminal.
31	SEG0	O	Segment output1 (hi-voltage proof output).
32	SEG1	O	Segment output2 (hi-voltage proof output).
33	SEG2	O	Segment output3 (hi-voltage proof output).
34	SEG3	O	Segment output4 (hi-voltage proof output).
35	SEG4	O	Segment output5 (hi-voltage proof output).
36	SEG5	O	Segment output6 (hi-voltage proof output).
37	SEG6	O	Segment output7 (hi-voltage proof output).
38	SEG7	O	Segment output8 (hi-voltage proof output).
39	P10	O	Segment output9 (hi-voltage proof output).
40	P11	O	Segment output10 (hi-voltage proof output).
41	P12	O	Segment output11 (hi-voltage proof output).
42	P13	O	Segment output12 (hi-voltage proof output).
43	P23	O	Segment output13 (hi-voltage proof output).
44	P22	O	Segment output14 (hi-voltage proof output).

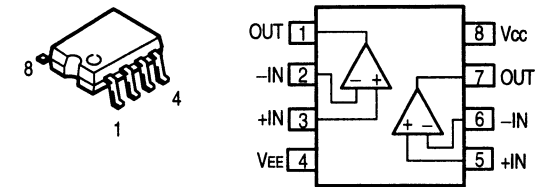
X24C00S (Power unit: IC602)
EEPROM



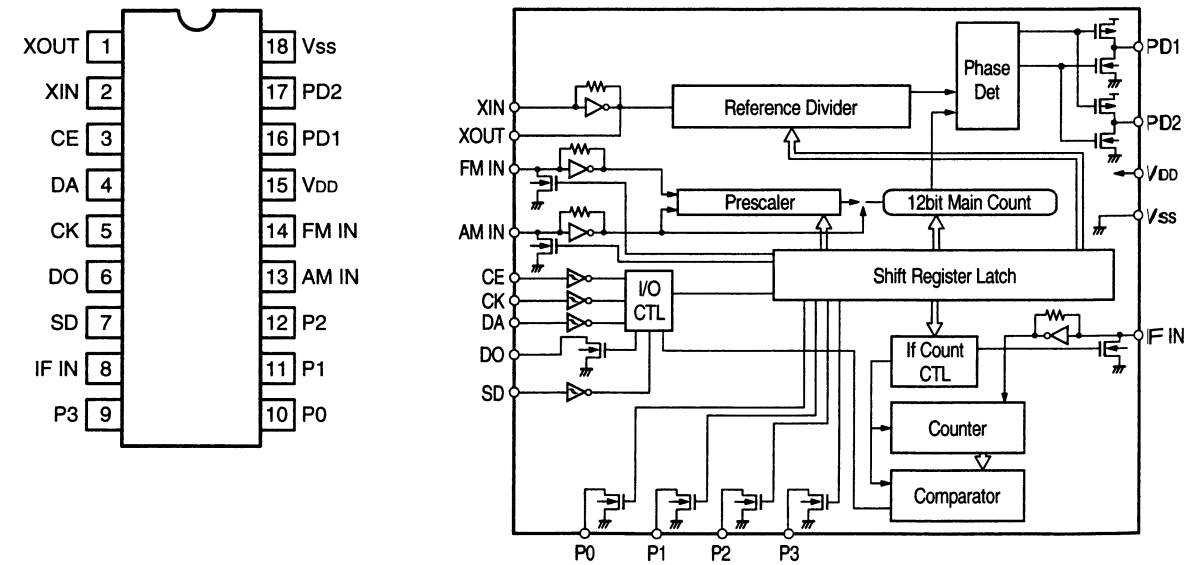
BA6287F (Main unit: IC106)
LOADING DRIVER



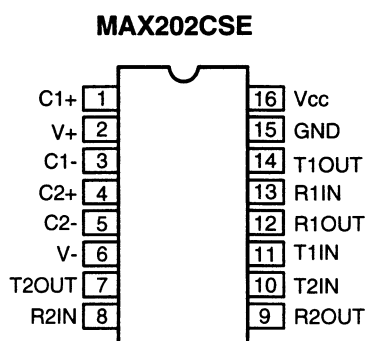
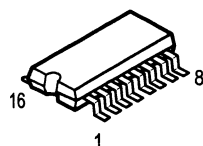
BA15218F (Main unit: IC111)



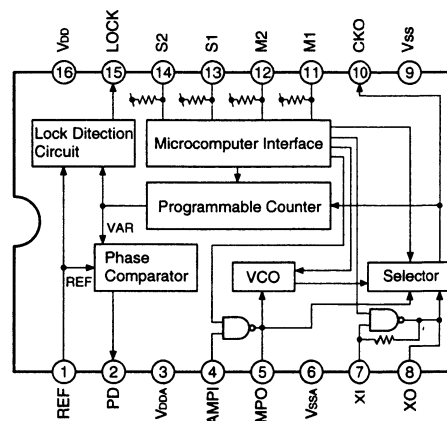
BU2616F (Main unit: IC107)



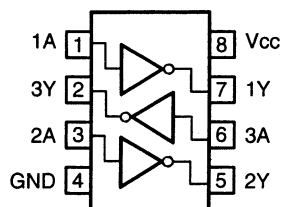
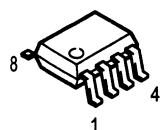
TC9246F (Main unit: IC108)
MAX202CSE (Remote unit: IC103)
(Power unit: IC601)



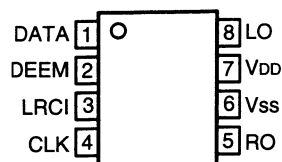
TC9246F



TC7WU04F (Power unit: IC701, 702)

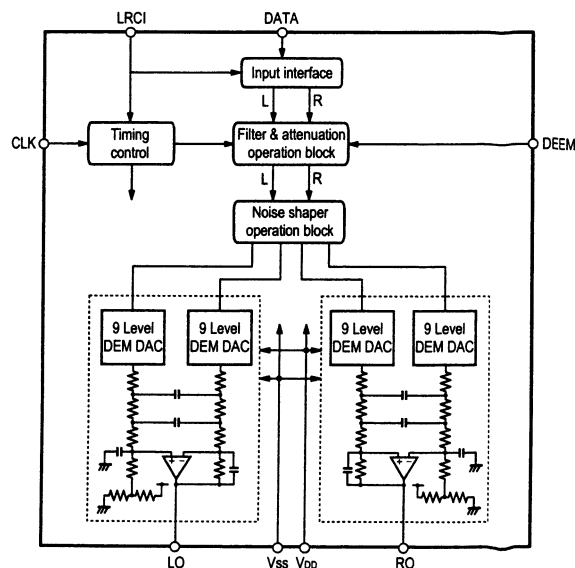


SM5882AS (Main unit: IC109)

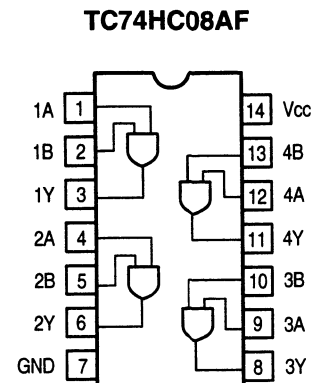
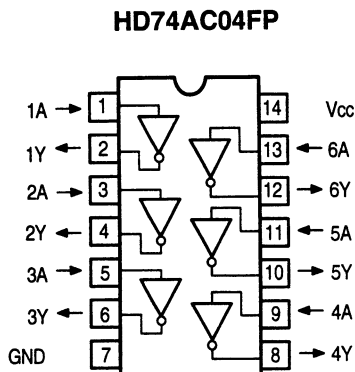
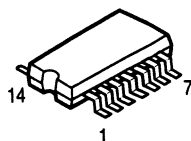


Terminal Function

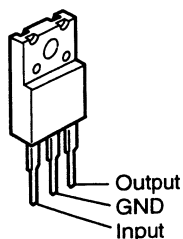
Pin No.	Pin Name	I/O	Function
1	DATA	I	Serial data input terminal
2	DEEM	I	De-emphasis switching terminal (44.1kHz, H: ON)
3	LRCI	I	Sample rate clock (fs) input terminal (H: Lch, L: Rch)
4	CLK	I	External clock input terminal
5	RO	O	Rch analog output terminal
6	Vss	—	Vss terminal
7	VDD	—	VDD terminal
8	LO	O	Lch analog terminal



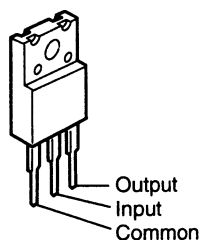
HD74AC04FP (Main unit: IC110)
TC74HC08AF (Power unit: IC603)



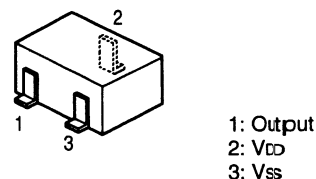
NJM7805FA (S)
(Power unit: IC608, 611, 613)
NJM7806FA (S)
(Power unit: IC610)



NJM7905FA
(Power unit: IC614)

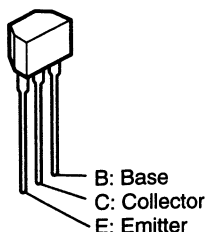


MN1382-R
(Remote unit: IC104)
MN1382-S
(Power unit: IC604)

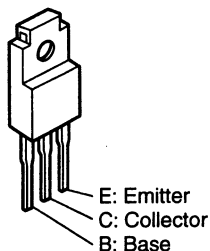


● TRANSISTORS

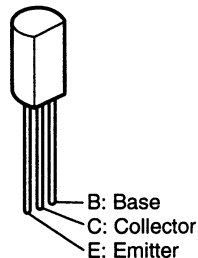
2SD2144S



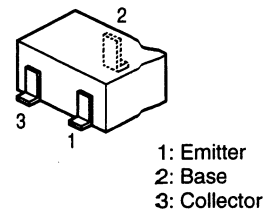
2SB1185 (E/F)



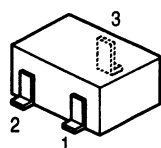
2SB562 (C)



2SC2412K (S)



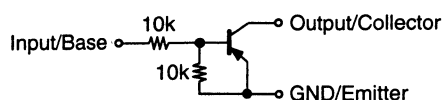
DTA114EK
DTC114EK



1: GND/Emitter
 2: Input/Base
 3: Output/Collector

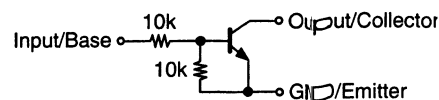
DTA114EK

(PNP Type)



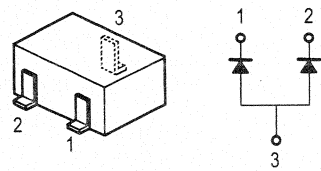
DTC114EK

(NPN Type)



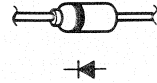
● DIODES(Including LED)

DAP202K

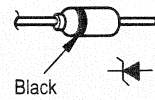


1: Cathode
2: Cathode
3: Anode

1SS270A

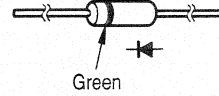


HZS2B-1
HZS6B-3
MTZJ4.3A
MTZJ27A



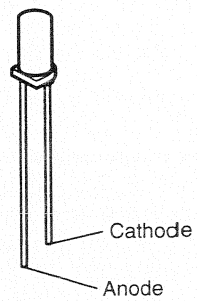
Black

1SR139-200

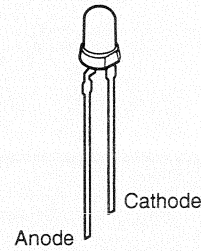


Green

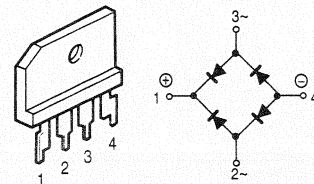
SLR-325MC (Green)
SLR-325VC (Red)



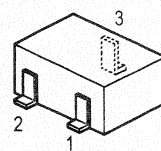
SEL1810A(Orange)



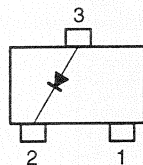
D3SBA20



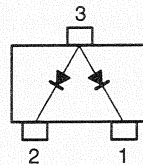
MA151A
MA151WA
MA151WK



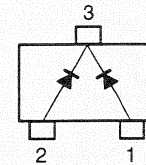
MA151A



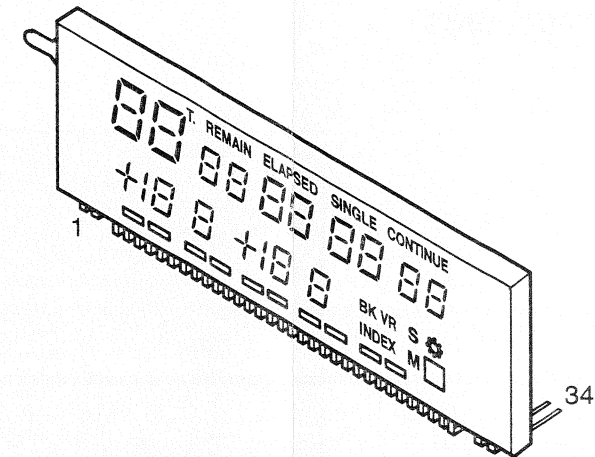
MA151WA



MA151WK



● FL TUBE 10-MT-109GK (FL201, 301)

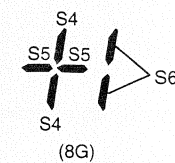
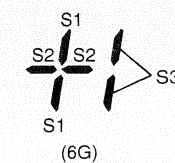
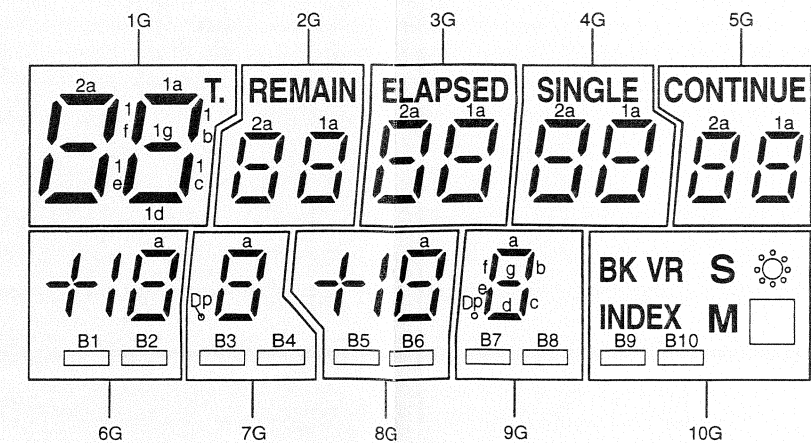


Pin Connection

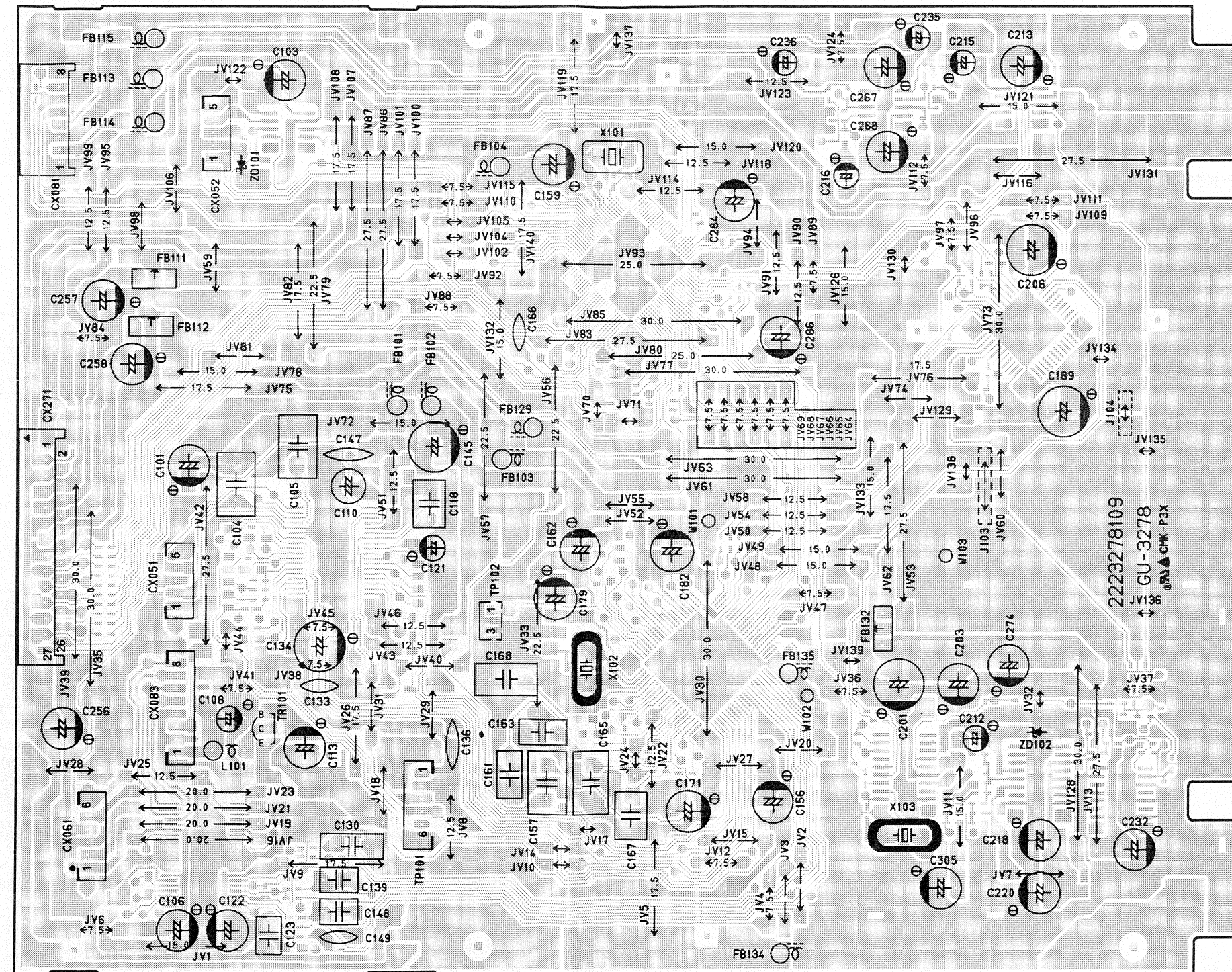
PIN No.	1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	
Connection	F	F	N	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	N	N	N	1	0	9	8	7	6	5	4	3	2	1	N	F
	1	1	P	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	C	C	C	C	G	G	G	G	G	G	G	G	G	P	2	2

NOTE 1) F1, F2 Filament
2) NP No Pin
3) NC No Connection
4) P1~P15 Datum Line
5) 1G~10G Grid

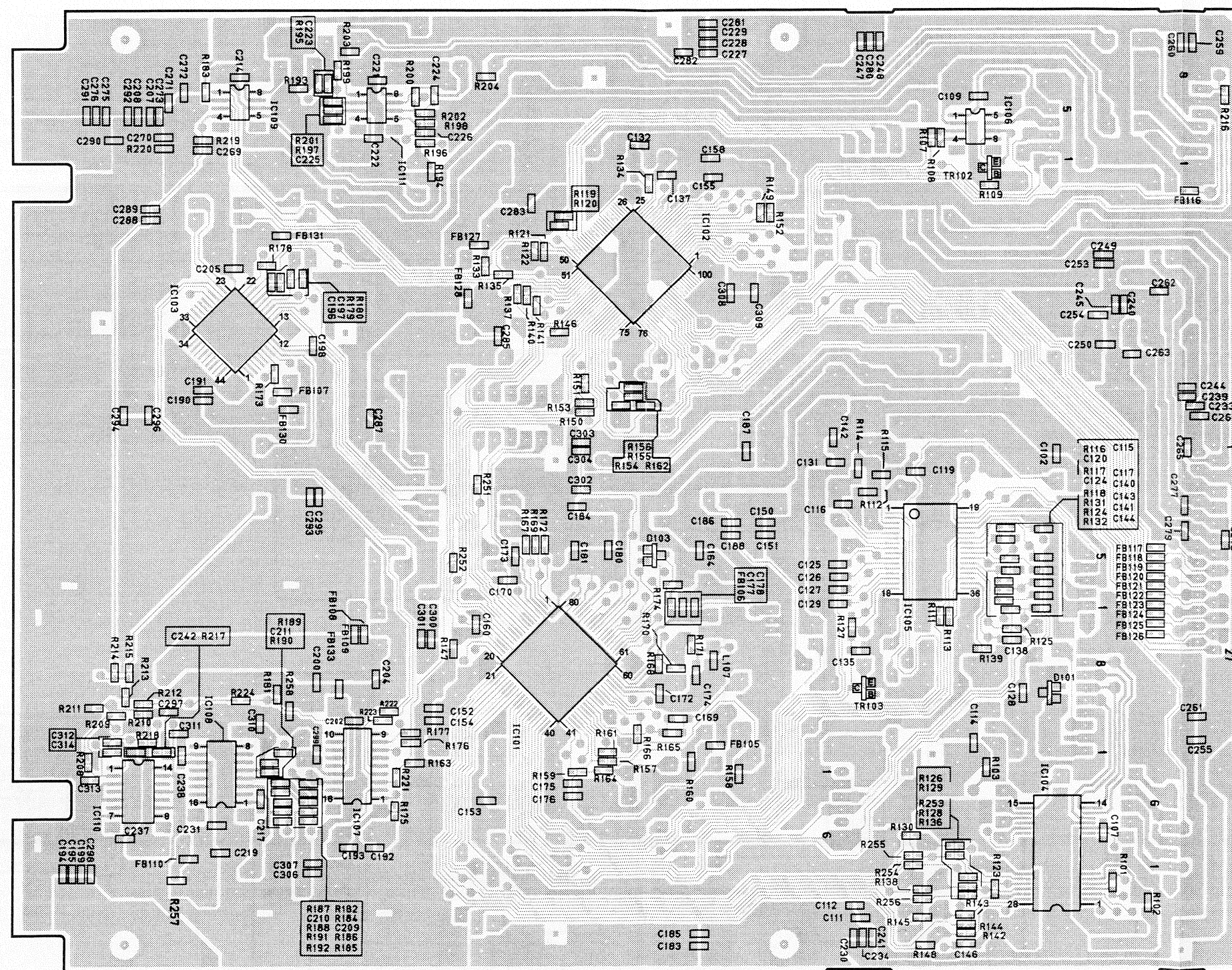
Grid Assignment



GU-3278 MAIN UNIT



COMPONENT SIDE



FOIL SIDE

1

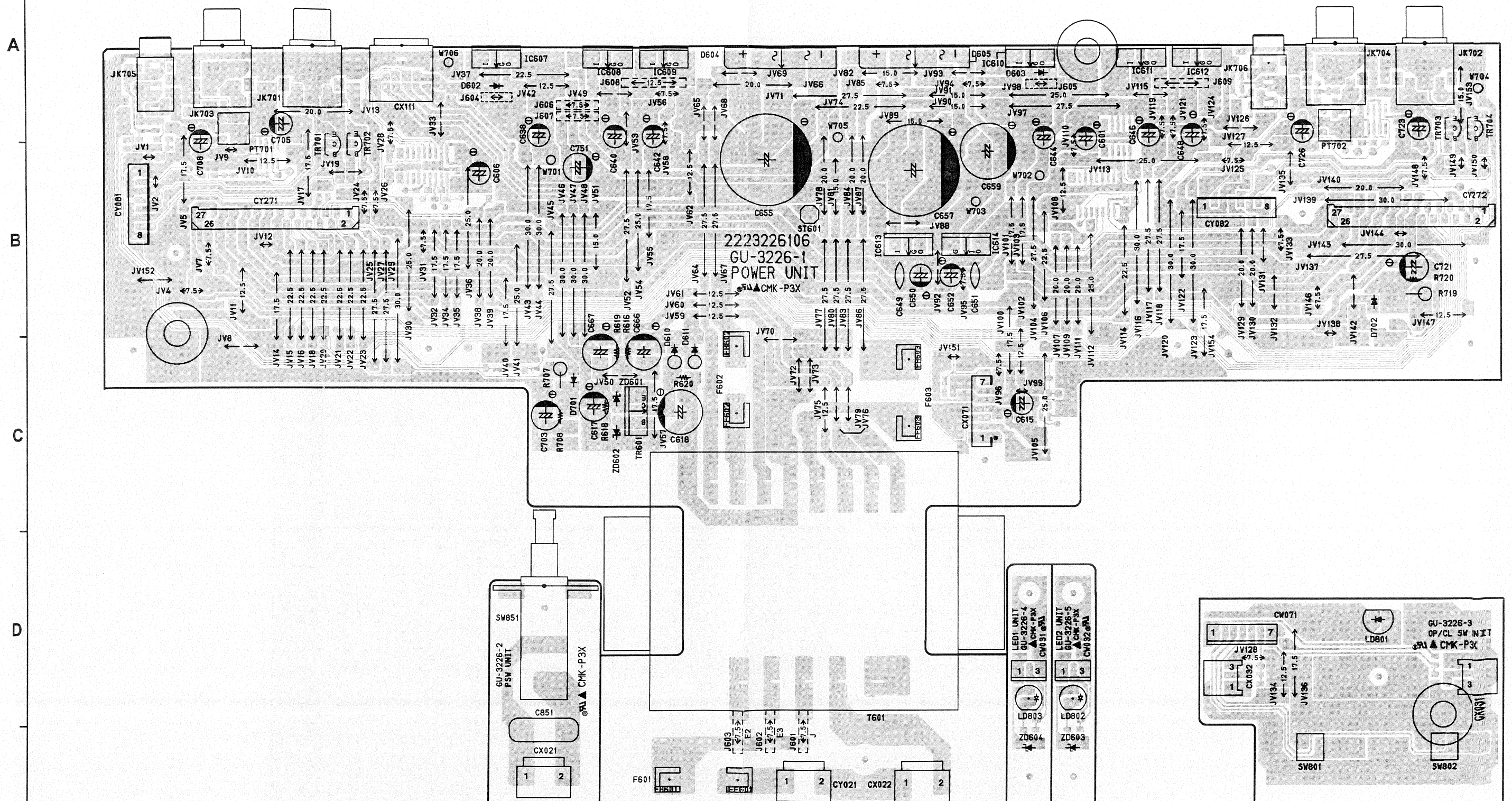
1

10

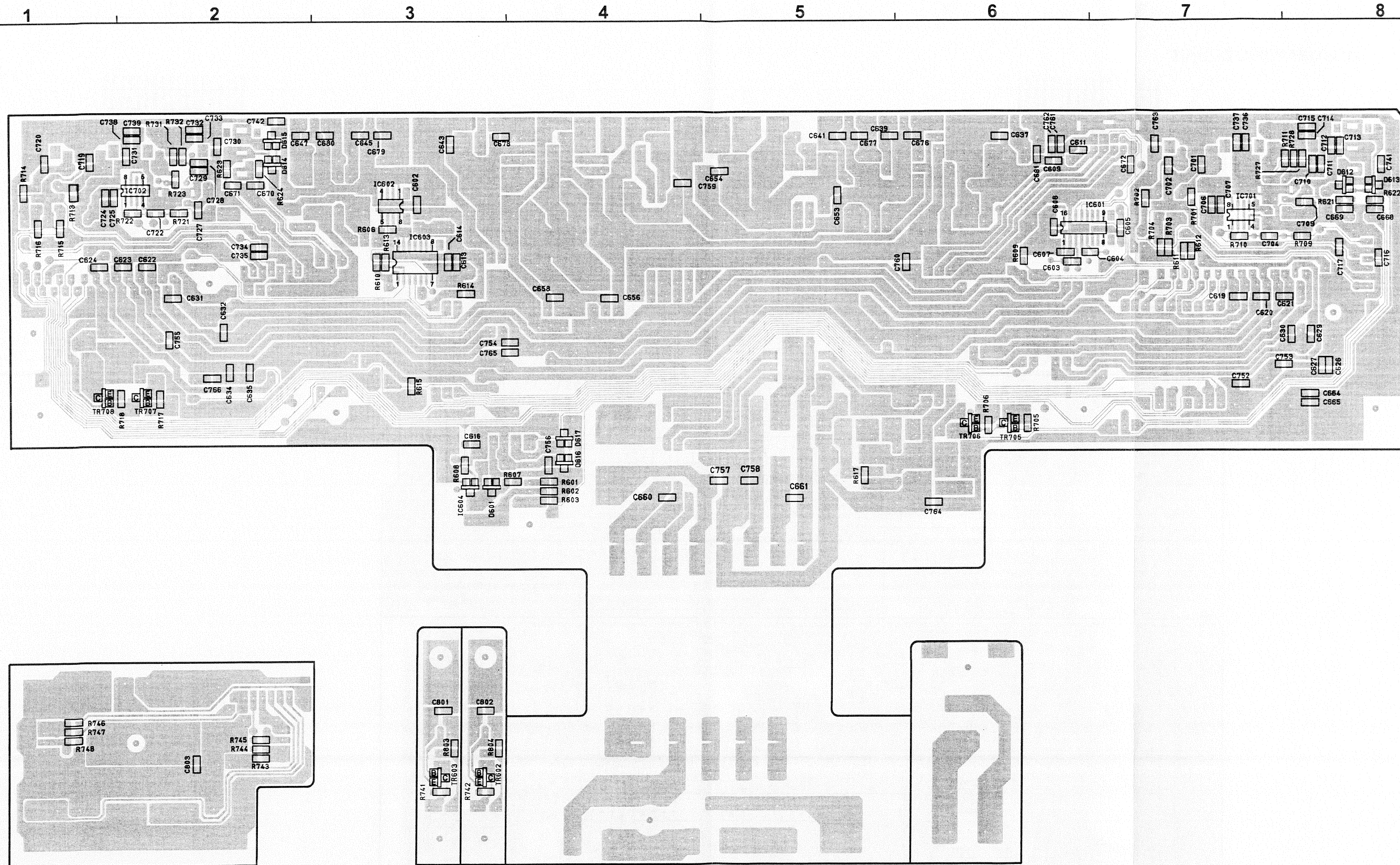
1

E

GU-3226A POWER UNIT

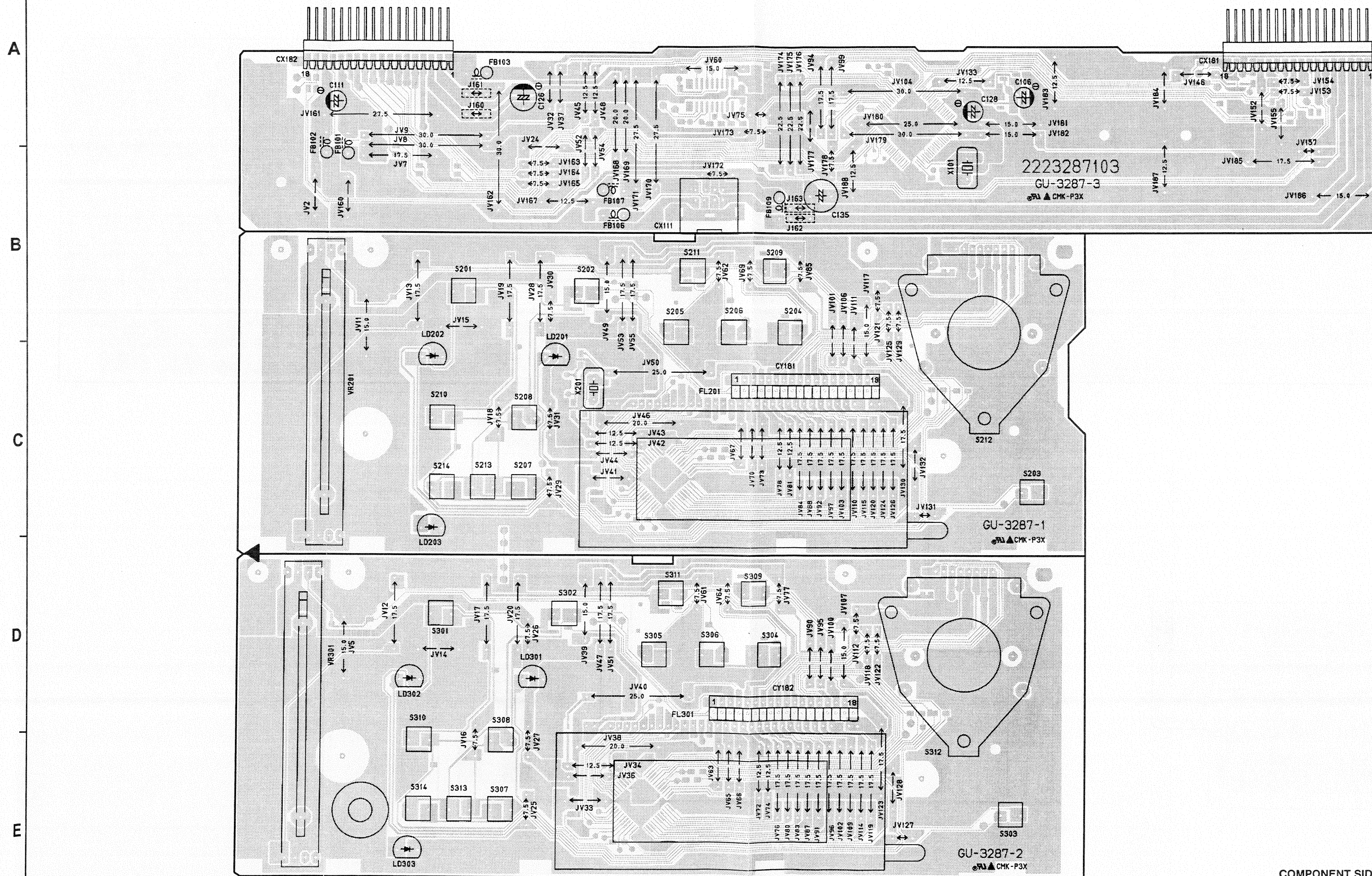


COMPONENTSIDE



FOIL SIDE

GU-3287 REMOTE UNIT



COMPONENT SIDE

1

2

3

4

5

6

7

8

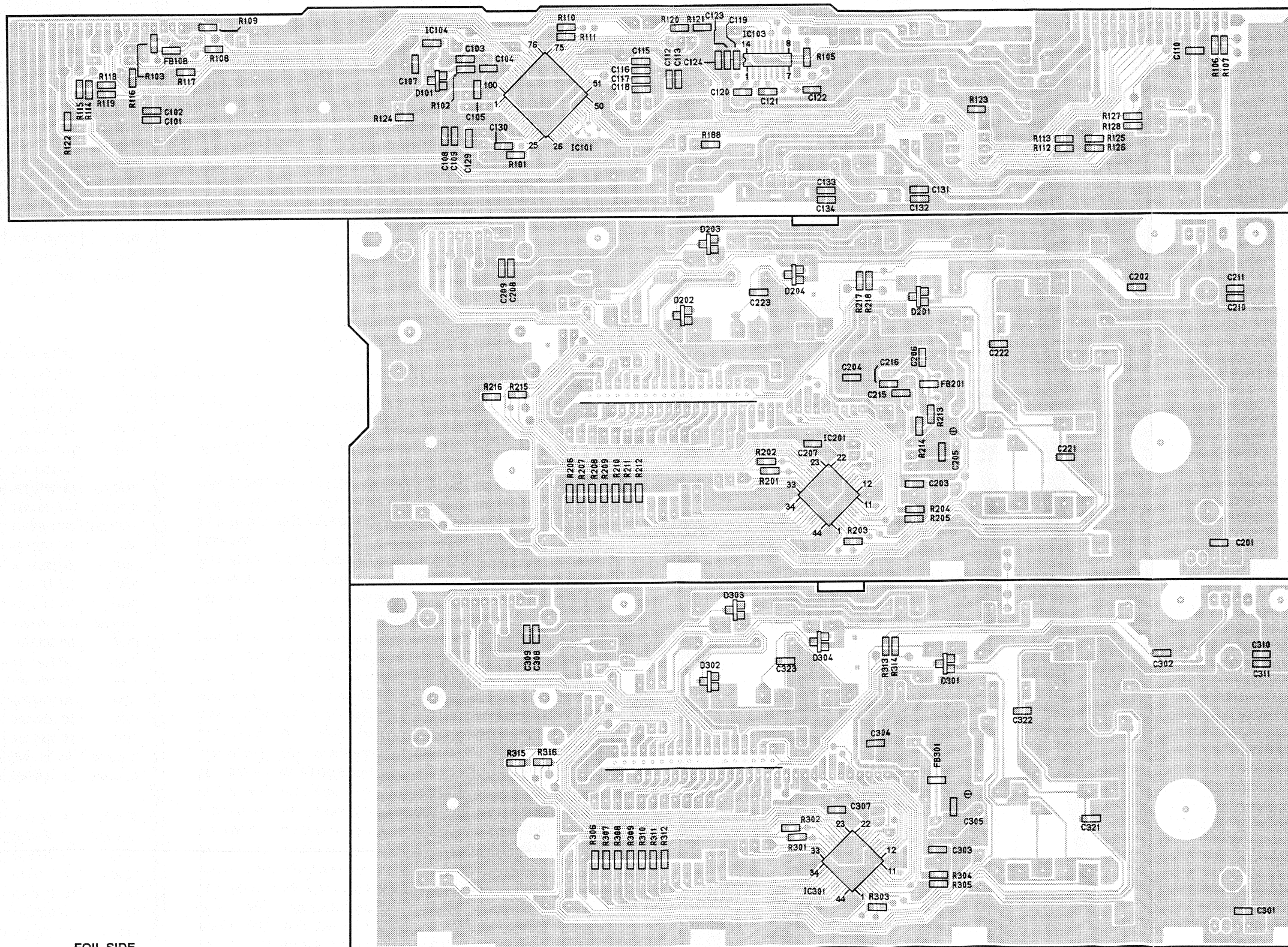
A

B

C

D

E



FOIL SIDE

NOTE FOR PARTS LIST

- Part indicated with the mark "○" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "I" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film $\pm 5\%$, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:

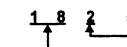
Parts marked with this symbol  have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

● Resistors

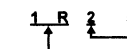
Ex.: RN 14K 2E 182 G ER
Type Shape Power Resist- Allowable Others
and per- ance error

RD : Carbon	2B : 1/8W	F : $\pm 1\%$	P : Pulse-resistant type
RC : Composition	2E : 1/4W	G : $\pm 2\%$	NL : Low noise type
RS : Metal oxide film	2H : 1/2W	J : $\pm 5\%$	NB : Non-burning type
RW : Winding	3A : 1W	K : $\pm 10\%$	FR : Fuse-resistor
RN : Metal film	3D : 2W	M : $\pm 20\%$	F : Lead wire forming
RK : Metal mixture	3F : 3W		
	3H : 5W		

* Resistance

 \Rightarrow 1800 ohm = 1.8 kohm
Indicates number of zeros after effective number.
2-digit effective number.

• Units: ohm

 \Rightarrow 1.2 ohm
1-digit effective number.
2-digit effective number, decimal point indicated by R.

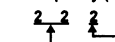
• Units: ohm

● Capacitors

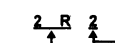
Ex.: CE 04W 1H 2R2 M BP
Type Shape Dielectric Capacity Allowable Others
and per- strength error

CE : Aluminum foil electrolytic	0J : 6.3V	F : $\pm 1\%$	HS : High stability type
CA : Aluminum solid electrolytic	1A : 10V	G : $\pm 2\%$	BP : Non-polar type
CS : Tantalum electrolytic	1C : 16V	J : $\pm 5\%$	HR : Ripple-resistant type
CQ : Film	1E : 25V	K : $\pm 10\%$	DL : For change and discharge
CK : Ceramic	1V : 35V	M : $\pm 20\%$	HF : For assuring high frequency
CC : Ceramic	1H : 50V	Z : $\pm 80\%$	U : UL part
CP : Oil	2A : 100V	-20%	C : CSA part
CM : Mica	2B : 125V	P : $\pm 100\%$	W : UL-CSA type
CF : Metallized	2C : 160V	-0%	F : Lead wire forming
CH : Metallized	2D : 200V	C : $\pm 0.25\text{pF}$	
	2E : 250V	D : $\pm 0.5\text{pF}$	
	2H : 500V	= : Others	
	2J : 630V		

* Capacity (electrolyte only)

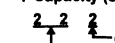
 \Rightarrow 2200 μF
Indicates number of zeros after effective number.
2-digit effective number.

• Units: μF .

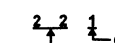
 \Rightarrow 2.2 μF
1-digit effective number.
2-digit effective number, decimal point indicated by R.

• Units: μF .

* Capacity (except electrolyte)

 \Rightarrow 2200pF=0.0022 μF
(More than 2) — Indicates number of zeros after effective number.
2-digit effective number.

• Units: μF .

 \Rightarrow 220pF
(0 or 1) — Indicates number of zeros after effective number.
2-digit effective number.

• Units: pF.

• When the dielectric strength is indicated in AC, "AC" is included after the dielectric strength value.

PARTS LIST OF P.W.B. UNIT
GU-3278 MAIN P.W.B. UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP				R140	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
IC101	262 2368 005	IC MN662724RPE		R141	247 2003 947	Carbon chip 22ohm 1/16W	RM73B--220J
IC102	262 2790 000	IC MN102L62GAA		R142	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
IC103	262 2788 009	IC SM5905AF		R143	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B--472J
IC104	262 2461 902	IC AN8816SB		R144	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
IC105	262 2462 901	IC AN8807SB		R145	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
IC106	263 0994 908	IC BA6287F		R146,147	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
IC107	262 2789 901	IC BU2616F		R148	247 2010 985	Carbon chip 27kohm 1/16W	RM73B--273J
IC108	262 1883 905	IC TC9246F		R149,150	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
IC109	262 2787 903	IC SM5882AS		R151	247 2003 947	Carbon chip 22ohm 1/16W	RM73B--220J
IC111	263 0615 902	IC BA15218F		R152,153	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
TR101	272 0025 907	Transistor 2SB562 (C)		R154	247 2003 947	Carbon chip 22ohm 1/16W	RM73B--220J
TR102	273 0384 900	Transistor 2SC2412K (S)		R155,156	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
TR103	269 0082 902	Transistor DTC114EK		R157	247 2011 984	Carbon chip 68kohm 1/16W	RM73B--683J
D101	276 0559 909	Diode DAP202K		R158	247 0014 967	Carbon chip 1Mohm 1/10W	RM73B--105J
D103	276 0559 909	Diode DAP202K		R160	247 0011 902	Carbon chip 33kohm 1/10W	RM73B--333J
ZD101	276 0462 928	Zener diode HZS6B-3		R161	247 2012 925	Carbon chip 100kohm 1/16W	RM73B--104J
ZD102	276 0450 901	Zener diode HZS2B-1		R162,163	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
RESISTORS GROUP				R164	247 2005 916	Carbon chip 110ohm 1/16W	RM73B--111J
R101,102	247 0018 905	Carbon chip 0ohm 1/10W	RM73B--0R0K	R165	247 0018 905	Carbon chip 0ohm 1/10W	RM73B--0R0K
R103	247 0002 966	Carbon chip 10ohm 1/10W	RM73B--100J	R167	247 2003 947	Carbon chip 22ohm 1/16W	RM73B--220J
R107,108	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J	R168	247 2014 965	Carbon chip 1Mohm 1/16W	RM73B--105J
R109	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J	R169	247 2003 947	Carbon chip 22ohm 1/16W	RM73B--220J
R111	247 2013 966	Carbon chip 390kohm 1/16W	RM73B--394J	R170	247 2005 929	Carbon chip 120ohm 1/16W	RM73B--121J
R112	247 0009 927	Carbon chip 5.6kohm 1/10W	RM73B--562J	R171	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R113	247 2013 940	Carbon chip 330kohm 1/16W	RM73B--334J	R172	247 2003 947	Carbon chip 22ohm 1/16W	RM73B--220J
R114	247 0009 927	Carbon chip 5.6kohm 1/10W	RM73B--562J	R173	247 2003 976	Carbon chip 30ohm 1/16W	RM73B--300J
R115	247 0009 901	Carbon chip 4.7kohm 1/10W	RM73B--472J	R174	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R116	247 2010 985	Carbon chip 27kohm 1/16W	RM73B--273J	R175	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R117	247 2008 968	Carbon chip 3.3kohm 1/16W	RM73B--332J	R176,177	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R118	247 2011 900	Carbon chip 33kohm 1/16W	RM73B--333J	R178~180	247 2003 947	Carbon chip 22ohm 1/16W	RM73B--220J
R119,120	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J	R181	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R121,122	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J	R182	247 2009 925	Carbon chip 5.6kohm 1/16W	RM73B--562J
R124	247 2008 968	Carbon chip 3.3kohm 1/16W	RM73B--332J	R183	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R125	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K	R184	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R126	247 2008 971	Carbon chip 3.6kohm 1/16W	RM73B--362J	R185,186	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R127	247 0005 989	Carbon chip 220ohm 1/10W	RM73B--221J	R187	247 2012 912	Carbon chip 91kohm 1/16W	RM73B--913J
R128	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J	R188	247 2012 983	Carbon chip 180kohm 1/16W	RM73B--184J
R129	247 2011 968	Carbon chip 56kohm 1/16W	RM73B--563J	R189	247 2005 903	Carbon chip 100ohm 1/16W	RM73B--101J
R130	247 2008 942	Carbon chip 2.7kohm 1/16W	RM73B--272J	R190	247 2013 937	Carbon chip 300kohm 1/16W	RM73B--304J
R132	247 2011 926	Carbon chip 39kohm 1/16W	RM73B--393J	R191	247 2008 939	Carbon chip 2.4kohm 1/16W	RM73B--242J
R133	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J	R192	247 2009 912	Carbon chip 5.1kohm 1/16W	RM73B--512J
R134	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K	R193,194	247 2011 942	Carbon chip 47kohm 1/16W	RM73B--473J
R135	247 2003 947	Carbon chip 22ohm 1/16W	RM73B--220J	R195~202	247 2009 983	Carbon chip 10kohm 1/16W	RM73B--103J
R136	247 2012 909	Carbon chip 82kohm 1/16W	RM73B--823J				
R137	247 2004 920	Carbon chip 47ohm 1/16W	RM73B--470J	R203,204	247 2010 998	Carbon chip 30kohm 1/16W	RM73B--303J
R138	247 2011 984	Carbon chip 68kohm 1/16W	RM73B--683J	R208,209	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R139	247 2013 908	Carbon chip 220kohm 1/16W	RM73B--224J	R210	247 2007 943	Carbon chip 1kohm 1/16W	RM73B--102J
				R212	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
				R213	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
				R214,215	247 2003 947	Carbon chip 22ohm 1/16W	RM73B--220J
				R216	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K

Ref. No.	Part No.	Part Name	Remarks
R217	247 2004 920	Carbon chip 47ohm 1/16W	RM73B--470J
R218	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R221~224	247 0018 905	Carbon chip 0ohm 1/10W	RM73B--0R0K
R251~256	247 2018 903	Carbon chip 0ohm 1/16W	RM73B--0R0K
R258	247 0018 905	Carbon chip 0ohm 1/10W	RM73B--0R0K

CAPACITORS GROUP

C101	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)
C102	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C103	254 4538 942	Electrolytic 100μF/16V	CE04W1C101M (SMG/RE3)
C106	254 4538 942	Electrolytic 100μF/16V	CE04W1C101M (SMG/RE3)
C107	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C108	254 4305 968	Electrolytic 1μF/50V	CE04W1H010M (SRE)
C109	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C110	254 3068 918	Electrolytic 2.2μF/50V	CE04D1H2R2MBP (SRA)
C111	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C112	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C113	254 4299 964	Electrolytic 47μF/16V	CE04W1C470M (SRE)
C115	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C116	257 0001 948	Ceramic chip 2.0 pF/50V	CC73SL1H2R0C
C117	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C118	256 1058 971	Metallized 0.1μF/50V	CF93A1H104J (JL)
C119	257 0002 976	Ceramic chip 16pF/50V	CC73SL1H160J
C120	257 0005 902	Ceramic chip 150pF/50V	CC73SL1H151J
C121	254 4305 968	Electrolytic 1μF/50V	CE04W1H010M (SRE)
C122	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)
C123	255 1265 936	Mylar film 0.01μF/50V	CQ93M1H103J (B)
C124	257 0005 960	Ceramic chip 270pF/50V	CC73SL1H271J
C125	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101J
C126	257 0010 955	Ceramic chip 0.027μF/25V	CK73B1E273K
C127	257 0009 924	Ceramic chip 2200pF/50V	CK73B1H222K
C128	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101J
C129	257 0009 966	Ceramic chip 4700pF/50V	CK73B1H472K
C130	256 1059 912	Metallized 0.22μF/50V	CF93A1H224J (JL)
C131	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C133	253 9030 963	Ceramic 0.01μF/25V	CK45=1E103K
C134	254 4213 940	Electrolytic 220μF/6.3V	CE04W0J221M (SRA)
C135	257 0005 944	Ceramic chip 220pF/50V	CC73SL1H221J
C136	253 9039 906	Ceramic 0.1μF/25V	CK45=1E104Z
C138	257 0009 966	Ceramic chip 4700pF/50V	CK73B1H472K
C139	255 1265 923	Mylar film 8200pF/50V	CQ93M1H822J (B)
C140	257 0010 900	Ceramic chip 0.01μF/50V	CK73B1H103K
C141	257 0009 924	Ceramic chip 2200pF/50V	CK73B1H222K
C142	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C144	257 0011 983	Ceramic chip 0.047μF/25V	CK73B1E473K
C145	254 4213 940	Electrolytic 220μF/6.3V	CE04W0J221M (SRA)
C147	253 9039 906	Ceramic 0.1μF/25V	CK45=1E104Z
C148	255 1264 924	Mylar film 1500pF/50V	CQ93M1H152J (B)
C149	253 9030 976	Ceramic 0.015μF/25V	CK45=1E153K
C150	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C151	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C152,153	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z

Ref. No.	Part No.	Part Name	Remarks
C154	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C155	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C156	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)
C157	255 4201 984	Polypropylene film 560pF/50V	CQ93P1H561J
C158	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z
C159	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)
C160	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C161	255 1265 978	Mylar film 0.022μF/50V	CQ93M1H223J (B)
C162	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)
C163	255 1265 978	Mylar film 0.022μF/50V	CQ93M1H223J (B)
C164	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C165	255 4202 909	Polypropylene film 680pF/50V	CQ93P1H681J
C166	253 1181 904	Ceramic 0.01μF/50V	CK45F1H103Z
C167	256 1058 971	Metallized 0.1μF/50V	CF93A1H104J (JL)
C170	257 0002 921	Ceramic chip 10 pF/50V	CC73SL1H100D
C171	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)
C172	257 0001 993	Ceramic chip 7.0 pF/50V	CC73SL1H7R0C
C173	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C174	257 0001 993	Ceramic chip 7.0 pF/50V	CC73SL1H7R0C
C175	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C176,177	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C178	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C179	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)
C180	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C181	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C182	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)
C183,184	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C185	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C186	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C188	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C189	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)
C190	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z
C191	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C192,193	257 0503 967	Ceramic chip 15pF/50V	CC73CH1H150J
C194	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C195	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z
C196	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C199,200	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104Z
C201	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)
C202	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z
C203	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)
C204,205	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z
C206	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)
C207	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z
C208	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C209	257 0507 992	Ceramic chip 390pF/50V	CC73CH1H391J
C210	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101J
C212	254 4305 955	Electrolytic 0.68μF/50V	CE04W1HR68M (SRE)
C213	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)
C214	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z
C215,216	254 4299 906	Electrolytic 10μF/16V	CE04W1C100M (SRE)

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
C217	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z	C300	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z
C218	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)	C301	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C219	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104Z	C302	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104Z
C220	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)	C303	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C221,222	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104Z	C304	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z
C223~226	257 0507 976	Ceramic chip 330pF/50V	CC73CH1H331J	C305	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)
C227	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K	C306	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z
C228	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z	C307	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104Z
C229	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104Z	C308	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z
C230	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K	C309	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C231	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z	C314	247 2018 903	Carbon chip 0ohm 1/16W	RM73B-0R0K
C232	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)	OTHER PARTS GROUP			Q'ty
C233,234	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z	CX051	205 0343 058	5P connector base (KR-PH)	1
C235,236	254 4299 906	Electrolytic 10μF/16V	CE04W1C100M (SRE)	CX052	205 0321 054	5P connector base (RED)	1
C237	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z	CX061	205 0321 067	6P connector base (RED)	1
C238	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z	CX081	205 0395 080	8P connector base (RED) L	1
C239,240	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z	CX083	205 0343 087	8P connector base (KR-PH)	1
C241	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104Z	CX271	205 1050 036	27P FFC connector base (9603F)	1
C242	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K	FB101~104	235 0049 900	Beads inductor	4
C244,245	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K	FB105~107	235 0130 903	EMI filter (11A121)	3
C247	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z	FB110	235 0130 903	EMI filter (11A121)	1
C248	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104Z	FB111,112	235 0048 901	EMI filter (103)	2
C249,250	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z	FB114,115	235 0049 900	Beads inductor	2
C253~255	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104Z	FB116~128	235 0130 903	EMI filter (11A121)	11
C256	254 4538 942	Electrolytic 100μF/16V	CE04W1C101M (SMG/RE3)	FB129	235 0049 900	Beads inductor	1
C257~258	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)	FB130,131	235 0130 903	EMI filter (11A121)	2
C259	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104Z	FB132	235 0086 905	EMI filter (101)	1
C260~263	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z	FB133	235 0137 906	Chip EMIFIL (HF50ACC)	1
C264,265	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104Z	L101	235 0060 950	Inductor 10μH	1
C267,268	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)	TP101	205 0343 061	6P connector base (KR-PH)	1
C269,270	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z	X101	399 0262 900	Ceramic resonator	CS12.288MTW 1
C271	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104Z	X102	399 0618 004	Crystal 24.57MHz	1
C272	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z	X103	399 0595 004	Crystal 8.4672MHz	1
C273	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104Z				
C274	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)				
C275	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K				
C276~279	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z				
C280	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K				
C281,282	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z				
C283	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104Z				
C284	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)				
C285	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104Z				
C286	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)				
C287	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104Z				
C288	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K				
C289,290	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z				
C291	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104Z				
C292~294	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z				
C295,296	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K				
C297,298	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z				
C299	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104Z				

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Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC601	262 2090 904	IC MAX202CSE	
IC602	262 1711 909	IC X24C00S	
IC603	262 1346 905	IC TC74HC08AF	
IC604	262 1647 905	IC MN1382-S	
IC608,609	263 0809 006	IC NJM7805FA (S)	
IC611~613	263 0809 006	IC NJM7805FA (S)	
IC614	263 0554 005	IC NJM7905FA	
IC701,702	262 1953 903	IC TC7WU04F	
TR601	272 0083 004	Transistor 2SB1185 (E/F)	
TR701~704	274 0160 907	Transistor 2SD2144STPU	
TR705	269 0083 901	Transistor DTA114EK	
TR706	269 0082 902	Transistor DTC114EK	
TR707	269 0083 901	Transistor DTA114EK	
TR708	269 0082 902	Transistor DTC114EK	
D601	276 0559 909	Diode DAP202K	
D604,605	276 0623 000	Diode D3SBA20	
D610,611	276 0550 908	Diode 1SR139-200	
D612	276 0438 949	Diode MA151WK	
D613	276 0438 907	Diode MA151WA	
D614	276 0438 949	Diode MA151WK	
D615	276 0438 907	Diode MA151WA	
D616	276 0438 949	Diode MA151WK	
D617	276 0438 907	Diode MA151WA	
D701,702	276 0432 903	Diode 1SS270A	
ZD601	276 0643 967	Zener diode MTZJ4.3A	
ZD602	276 0645 949	Zener diode MTZJ27A	
LD801	393 9543 907	LED SLR-325VC	Red
LD802,803	393 9453 932	LED SEL1810A	Orange
RESISTORS GROUP			
R601,602	247 0009 985	Carbon chip 10kohm 1/10W	RM73B--103J
R603	247 0005 905	Carbon chip 100ohm 1/10W	RM73B--101J
R606	247 0009 985	Carbon chip 10kohm 1/10W	RM73B--103J
R607	247 0005 989	Carbon chip 220ohm 1/10W	RM73B--221J
R608	247 0018 905	Carbon chip 0ohm 1/10W	RM73B--0R0K
R609~615	247 0009 985	Carbon chip 10kohm 1/10W	RM73B--103J
R617	247 0008 944	Carbon chip 2.7kohm 1/10W	RM73B--272J
R621~624	247 0007 945	Carbon chip 1kohm 1/10W	RM73B--102J
R701,702	247 0007 903	Carbon chip 680ohm 1/10W	RM73B--681J
R703,704	247 0008 944	Carbon chip 2.7kohm 1/10W	RM73B--272J
R705	247 0009 985	Carbon chip 10kohm 1/10W	RM73B--103J
R706	247 0012 998	Carbon chip 200kohm 1/10W	RM73B--204J
R707	244 2051 974	Metal oxide 1kohm 1W	RS14B3A102JNBS (S)
R709	247 0004 977	Carbon chip 75ohm 1/10W	RM73B--750J
R710	247 0014 967	Carbon chip 1Mohm 1/10W	RM73B--105J
R711	247 0004 977	Carbon chip 75ohm 1/10W	RM73B--750J
R713,714	247 0007 903	Carbon chip 680ohm 1/10W	RM73B--681J
R715,716	247 0008 944	Carbon chip 2.7kohm 1/10W	RM73B--272J
R717	247 0009 985	Carbon chip 10kohm 1/10W	RM73B--103J
R718	247 0012 998	Carbon chip 200kohm 1/10W	RM73B--204J
R719	244 2051 974	Metal oxide 1kohm 1W	RS14B3A102JNBS (S)
R721	247 0004 977	Carbon chip 75ohm 1/10W	RM73B--750J
R722	247 0014 967	Carbon chip 1Mohm 1/10W	RM73B--105J
R723	247 0004 977	Carbon chip 75ohm 1/10W	RM73B--750J
R727,728	247 0018 905	Carbon chip 0ohm 1/10W	RM73B--0R0K
R731,732	247 0018 905	Carbon chip 0ohm 1/10W	RM73B--0R0K
R741,742	247 0018 905	Carbon chip 0ohm 1/10W	RM73B--0R0K
R744	247 0018 905	Carbon chip 0ohm 1/10W	RM73B--0R0K
R747	247 0018 905	Carbon chip 0ohm 1/10W	RM73B--0R0K
R803,804	247 0005 989	Carbon chip 220ohm 1/10W	RM73B--221J
CAPACITORS GROUP			
C601	254 4536 931	Electrolytic 220μF/10V	CE04V1A221M(SMG/RE3)
C602~605	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C606	254 4536 931	Electrolytic 220μF/10V	CE04V1A221M(SMG/RE3)
C607,608	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C611	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C613	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C614	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C615	254 4538 939	Electrolytic 47μF/16V	CE04V1C470M(SMG/RE3)
C616	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C617	254 4535 929	Electrolytic 47μF/63V	CE04V1J470M(SMG/RE3)
C618	254 4540 707	Electrolytic 330μF/63V	CE04V1J331M(SMG/RE3)
C619~624	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C626	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C627	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C629~632	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C634	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C635	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C637	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C638	254 4538 955	Electrolytic 220μF/16V	CE04V1C221M(SMG/RE3)
C639	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C640	254 4536 931	Electrolytic 220μF/10V	CE04V1A221M(SMG/RE3)
C641	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C642	254 4536 931	Electrolytic 220μF/10V	CE04V1A221M(SMG/RE3)
C643	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C644	254 4538 955	Electrolytic 220μF/16V	CE04V1C221M(SMG/RE3)
C645	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C646	254 4536 931	Electrolytic 220μF/10V	CE04V1A221M(SMG/RE3)
C647	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C648	254 4536 931	Electrolytic 220μF/10V	CE04V1A221M(SMG/RE3)
C649	253 9039 906	Ceramic 0.1μF/25V	CK4--1E104Z
C650	254 4536 931	Electrolytic 220μF/10V	CE04V1A221M(SMG/RE3)
C651	253 9039 906	Ceramic 0.1μF/25V	CK4--1E104Z

Ref. No.	Part No.	Part Name	Remarks
C652	254 4536 931	Electrolytic 220μF/10V	CE04W1A221M(SMG/RE3)
C653,654	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C655	254 4442 708	Electrolytic 6800μF/16V	CE04W1C682M(SMG)
C656	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C657	254 4442 708	Electrolytic 6800μF/16V	CE04W1C682M(SMG)
C658	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C659	254 4539 718	Electrolytic 2200μF/16V	CE04W1C222M(SMG/RE3)
C664	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C665	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C668~671	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C676~681	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C701,702	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C703	254 4538 955	Electrolytic 220μF/16V	CE04W1C221M(SMG/RE3)
C704	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C705	254 4536 931	Electrolytic 220μF/10V	CE04W1A221M(SMG/RE3)
C706	257 0012 908	Ceramic chip 1000pF/50V	CK73F1H102Z
C707	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C708	254 4254 925	Electrolytic 33μF/16V	CE04W1C330M
C709	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C710	257 0012 908	Ceramic chip 1000pF/50V	CK73F1H102Z
C711,712	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C713	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C715	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C716,717	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C719,720	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C721	254 4538 955	Electrolytic 220μF/16V	CE04W1C221M(SMG/RE3)
C722	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C723	254 4536 931	Electrolytic 220μF/10V	CE04W1A221M(SMG/RE3)
C724	257 0012 908	Ceramic chip 1000pF/50V	CK73F1H102Z
C725	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C726	254 4254 925	Electrolytic 33μF/16V	CE04W1C330M
C727	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C728	257 0012 908	Ceramic chip 1000pF/50V	CK73F1H102Z
C729,730	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C731	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C733	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C734~736	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C737	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C738	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C739	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C741,742	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C751	254 4538 955	Electrolytic 220μF/16V	CE04W1C221M(SMG/RE3)
C752~756	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C759~761	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C762	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C763~766	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C801~803	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
Δ C851	253 8022 707	Ceramic 0.01 μF/250V (AC)	CK45F2EAC103M

Ref. No.	Part No.	Part Name	Remarks	Q'ty
OTHER PARTS GROUP				
CW031,032	203 4379 022	3P KR-DS connector cord		2
CW071	204 2309 042	7P KR-DS connector cord		1
CX021,022	205 0581 001	2P VH connector base		2
CX031,032	205 0355 033	3P KR connector base (L)		2
CX071	205 0343 074	7P connector base (KR-PH)		1
CX111	205 1135 003	8P MD connector base (F-S)		1
CY021	205 0581 056	2P VH connector base		1
CY081,082	205 0321 083	8P connector base (RED)		2
CY271,272	205 0880 016	27P FFC connector base		2
FF601~603	202 0040 909	Fuse clip		3
FH601~603	202 0040 909	Fuse clip		3
JK701,702	204 8553 009	2P pin jack (FG-ANA)		2
JK703,704	204 8406 020	1P pin jack		2
JK705,706	204 8421 005	Mini jack		2
PT701,702	231 8063 009	Pulse trans.		2
SW801,802	212 5604 907	Tact switch		2
Δ SW851	212 1176 015	Power switch (TV-5)		1
W703	203 0541 003	1P SIN cord Ass'y		1

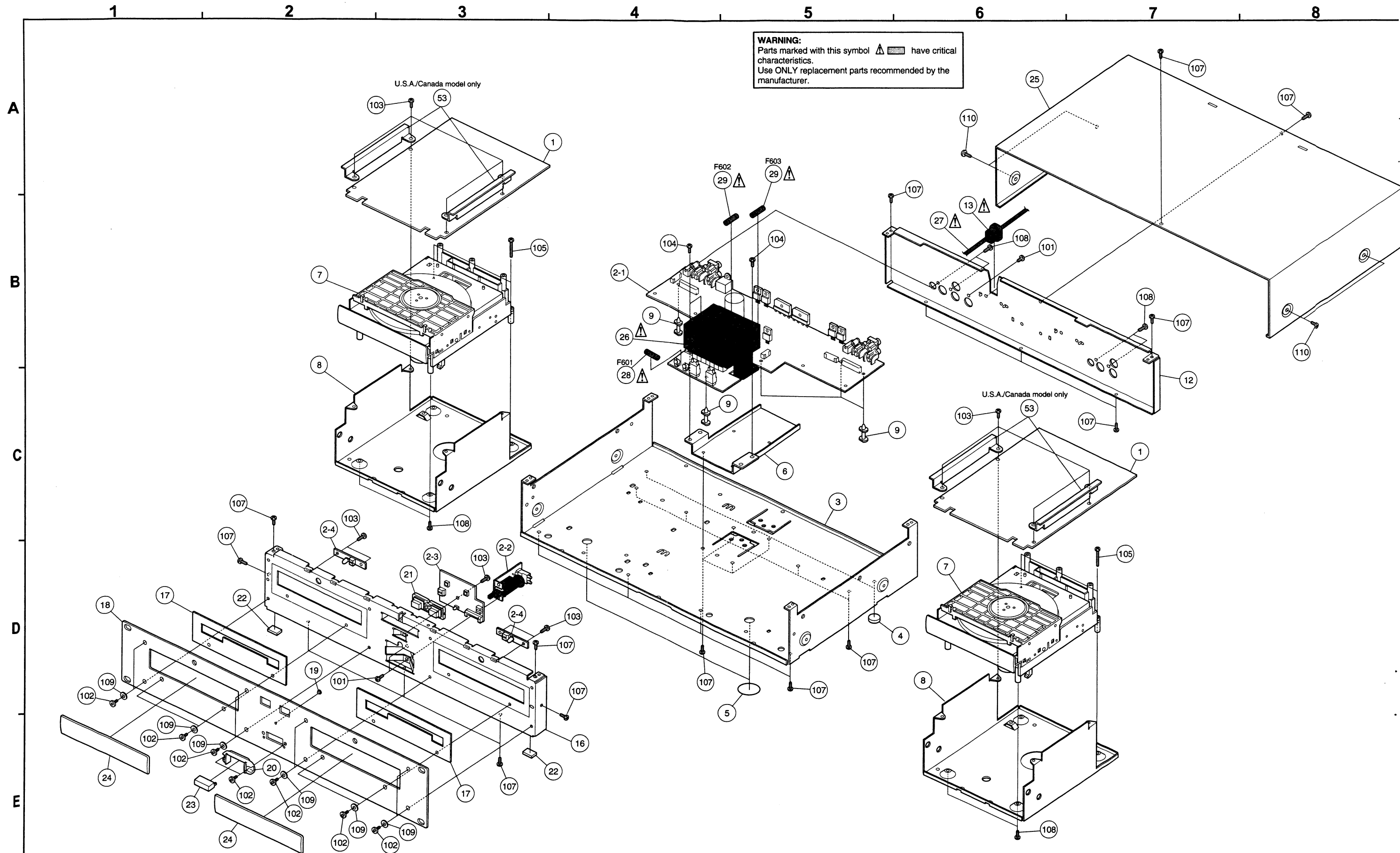
GU-3287 REMOTE P.W.B. UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC101	262 2790 00O	IC MN102L62GAA	
IC103	262 2090 904	IC MAX202CSE	
IC104	262 2452 90B	IC MN1382-R	
IC201	262 2459 00B	IC MN12510F	
IC301	262 2459 00B	IC MN12510F	
D101	276 0438 91O	Diode MA151A	
D201~204	276 0438 91O	Diode MA151A	
D301~304	276 0438 91O	Diode MA151A	
LD201	393 9543 907	LED SLR-325VC	Red
LD202,203	393 9543 91O	LED SLR-325MC	Green
LD301	393 9543 907	LED SLR-325VC	Red
LD302,303	393 9543 91O	LED SLR-325MC	Green
FL201	393 8032 00B	FLT (10-MT-109GK)	
FL301	393 8032 00B	FLT (10-MT-109GK)	
RESISTORS GROUP			
R101	247 0018 905	Carbon chip 0ohm 1/10W	RM73B--0R0K
R102	247 0005 989	Carbon chip 220ohm 1/10W	RM73B--221J
R103	247 0003 949	Carbon chip 22ohm 1/10W	RM73B--220J
R105~128	247 0009 985	Carbon chip 10kohm 1/10W	RM73B--103J
R188	247 0007 95B	Carbon chip 1.1kohm 1/10W	RM73B--112J
R201~203	247 0006 946	Carbon chip 390ohm 1/10W	RM73B--391J
R204~212	247 0012 927	Carbon chip 100kohm 1/10W	RM73B--104J
R213	247 0003 949	Carbon chip 22ohm 1/10W	RM73B--220J
R214~218	247 0018 905	Carbon chip 0ohm 1/10W	RM73B--0R0K
R301~303	247 0006 946	Carbon chip 390ohm 1/10W	RM73B--391J
R304~312	247 0012 927	Carbon chip 100kohm 1/10W	RM73B--104J
R313~316	247 0018 905	Carbon chip 0ohm 1/10W	RM73B--0R0K
VR201	211 0908 003	Slide volume	
VR301	211 0908 003	Slide volume	
CAPACITORS GROUP			
C103	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C104	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C105	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C106	254 4538 939	Electrolytic 47μF/16V	CE04W1C470M (SMG)
C107,108	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z

Ref. No.	Part No.	Part Name	Remarks
C109	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C110	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C111	254 4533 918	Electrolytic 47μF/6.3V	CE04W0J470M (SMG)
C112	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C113	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C115~118	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C119~123	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C124	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C126	254 4522 954	Electrolytic 47μF/35V	CE04W1V470M (SMG)
C128	254 4538 939	Electrolytic 47μF/16V	CE04W1C470M (SMG)
C133	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C134	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C201,202	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C203	257 1015 920	Ceramic chip 0.1μF/50V	CK73F1H104Z
C204	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C205	257 2002 961	Tantalum E. 47pF/7V	CS77B--470M
C206	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C207	257 0002 921	Ceramic chip 10 pF/50V	CC73SL1H100D
C208	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C209	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C215,216	257 0003 933	Ceramic chip 30pF/50V	CC73SL1H300J
C221~223	257 0003 988	Ceramic chip 47pF/50V	CC73SL1H470J
C301,302	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C303	257 1015 920	Ceramic chip 0.1μF/50V	CK73F1H104Z
C304	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C305	257 2002 961	Tantalum E. 47pF/7V	CS77B--470M
C307	257 0002 921	Ceramic chip 10 pF/50V	CC73SL1H100D
C308	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C309	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C321~323	257 0003 988	Ceramic chip 47pF/50V	CC73SL1H470J
OTHER PARTS GROUP			Q'ty
CX111	205 0877 003	8P MD base (F-S)	1
CX181,182	205 0850 033	18P connector base (BTMK-P)	2
CY181,182	205 0849 031	18P connector base (BTMK-S)	2
FB101~103	235 0049 900	Beads inductor	3
FB106,107	235 0049 900	Beads inductor	2
FB108	235 0130 903	EMI filter (11A121)	1
FB109	235 0049 900	Beads inductor	1
FB201	235 0130 903	EMI filter (11A121)	1
FB301	235 0130 903	EMI filter (11A121)	1
S201~211	212 5604 907	Tact switch	11
S212	212 0402 104	Jog-shuttle	1
S213,214	212 5604 907	Tact switch	2
S301~311	212 5604 907	Tact switch	11
S312	212 0402 104	Jog-shuttle	1
S313,314	212 5604 907	Tact switch	2

Ref. No.	Part No.	Part Name	Remarks	Q'ty
X101	399 0262 900	Ceramic resonator	CST12.288MTW	1
X201	399 0041 901	Ceramic resonator	CSA4.00MG	1
	461 0984 017	FL spacer		2

EXPLODED VIEW OF CHASSIS AND CABINET



Note: The symbols in the column "Remarks" indicate the following destinations.
E3: U.S.A./Canada model EK: U.K. model
E2: Europe model

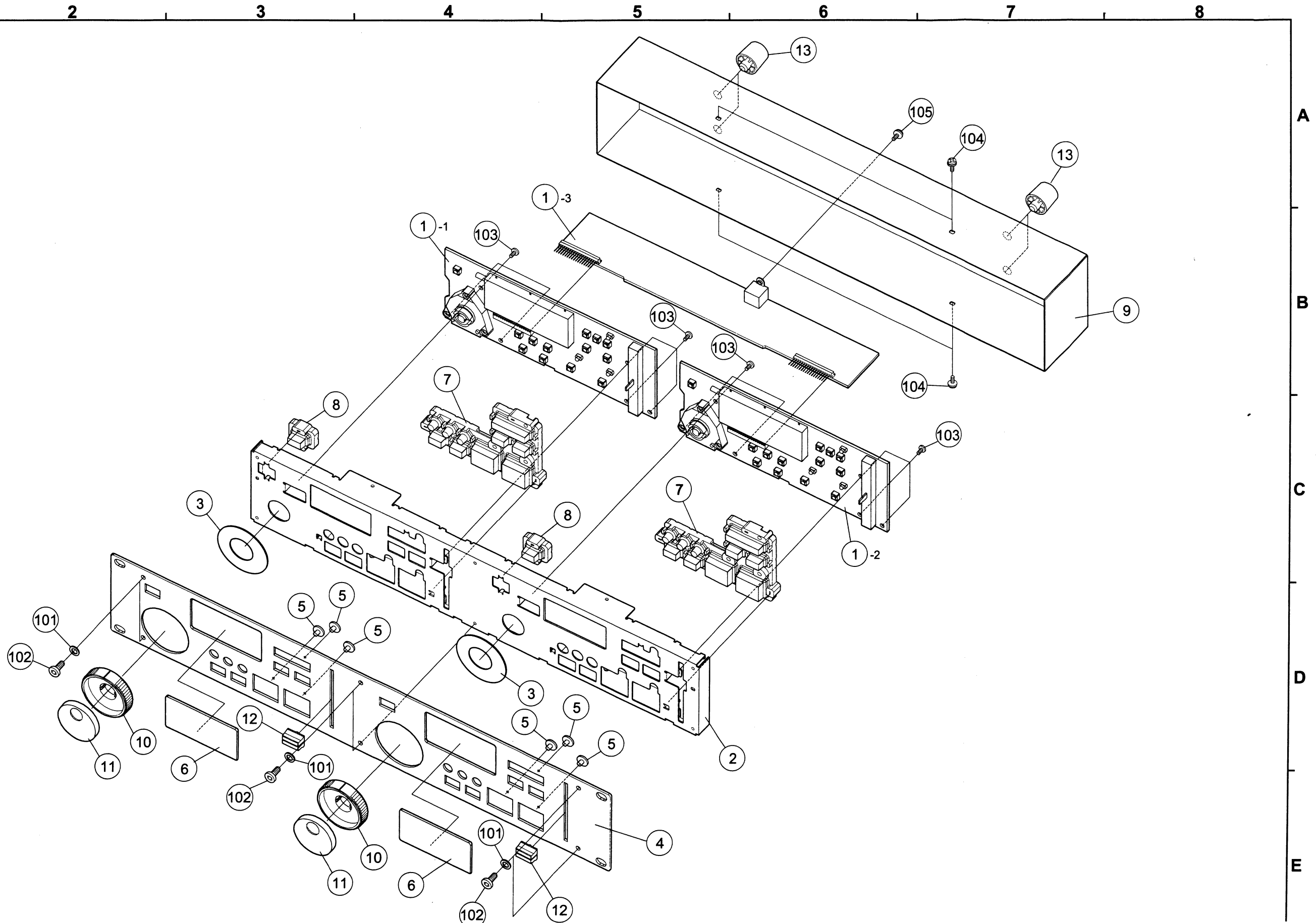
PARTS LIST OF EXPLODED VIEW

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	GU-3278	Main P.W.B. unit Ass'y		2	★ 47	513 2521 009	CE label	for E2/EK	1
2	GU-3226A	Power P.W.B. unit Ass'y		1	★ 48	513 3160 100	E3 label	for E3	1
2-1		Power unit			★ 49	513 0985 003	Inst. label	for E2/EK	1
2-2		P. SW. unit			★ 50	513 3384 009	C-UL mark US (813)	for E3	1
2-3		OP/CL SW. unit			★ 51	513 3253 004	C-TICK label	for E2/EK	1
2-4		LED unit			★ 52	513 3159 001	FCC/class B caution	for E3	1
3	411 1923 001	Chassis		1	53	412 4619 001	Earth bracket	for E3	4
4	461 0706 127	Foot sheet		2	SCREWS & NUTS				
5	513 3175 001	Blind label		2	101	471 3303 029	Screw 3×6 CBS-B		3
6	412 4343 102	Trans. bracket		1	102	471 9050 020	Screw 3×6 FHHS MFZNII-B		14
7	337 0059 102	CD mecha. unit (CD93F8)		2	103	473 7002 005	Screw 3×6 CBTS (S)-Z		13
8	412 4560 008	Mecha. bracket		2	104	473 7004 003	Screw 4×8 CBTS (S)-Z		4
9	412 2814 086	Card spacer (L=14.8)		5	105	473 7005 057	Screw 3×25 CBTS (S)-Z		4
12	105 1324 226	Back panel		1	107	473 7015 018	Screw 3×8 CBTS (S)-B		26
△ 13	445 0084 009	Cord bush	for E3	1	108	473 7508 017	Screw 3×10 CBTS (P)-B		8
△ 13	445 0056 008	Cord bush	for E2/EK	1	109	475 1178 009	Washer 3W-B		12
16	441 1919 003	Front sub panel		1	110	477 0263 005	3P. swelling screw		4
17	415 0831 109	Blind sheet		2					
18	144 2683 013	Front panel		1					
19	146 1371 005	LED window		1					
20	146 1661 016	Power SW. protector		1					
21	119 0069 125	Rubber key (B)		1					
22	461 0740 002	Sheet		2					
23	113 1357 207	P. SW. knob		1					
24	146 2067 114	Loader panel		2					
25	102 0425 253	Top cover		1					
△ 26	233 6323 006	Power trans.		1					
△ 27	206 2155 001	AC cord with connector E3	for E3	1					
△ 27	206 2089 106	AC cord with connector E2	for E2	1					
△ 27	206 2128 009	AC cord with connector EK	for EK	1					
△ 28	206 1039 005	Fuse 630mA	F601, for E3	1					
△ 28	206 1015 045	Fuse 315mA	F601, for E2/EK	1					
△ 29	206 1039 076	Fuse 2.5A	F602/603, for E3	2					
△ 29	206 1015 032	Fuse 2.5A	F602/603, for E2/EK	2					
★ 30	445 8028 009	Cord holder		1					
★ 31	445 0033 005	Wire clamp band		2					
★ 32	203 8440 025	5P PH-PH connector cord	CX051 to Mecha.	2					
★ 33	204 2469 050	8P PH-PH connector cord	CX083 to Mecha.	2					
★ 34	204 0479 042	6P connector cord (Red)	CX061 to Mecha.	2					
★ 35	203 8440 038	5P PH-PH connector cord (Red)	CX052 to Mecha.	2					
★ 36	009 0133 042	27P FFC	CX271 to CY271	2					
★ 37	204 2661 049	8P PH-PH connector cord	CX081 to CY081	2					
★ 38	203 5132 080	3P VH connector cord	CX021 to CY021	1					
★ 39	513 2065 002	E2 laser caution	for E2	2					
★ 40	513 3465 009	Fuse label (E3)	for F601, for E3	1					
★ 40	513 3402 033	Fuse label	for F601, for E2/EK	1					
★ 41	513 3465 012	Fuse label (E3)	for F602/603, for E3	2					
★ 41	513 3402 046	Fuse label	for F602/603, for E2/EK	2					
★ 42	513 3335 016	Fuse caution label	for E3	1					
★ 43	513 3161 099	Rating sheet	for E3	1					
★ 43	513 3161 086	Rating sheet	for E2/EK	1					
★ 44	513 2303 007	Version label		1					
★ 45	513 2728 006	Caution sheet (PU)		1					
★ 46	513 1519 009	Manufacture date label	for E3	1					

PARTS LIST OF RC-47 REMOTE CONTROL UNIT

Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	GU-3287	Remote P.W.B. unit Ass'y		1
1-1		Display1 unit		
1-2		Display2 unit		
1-3		CPU unit		
2	441 1859 105	RC front sub panel		1
3	122 0229 107	Blind sheet		2
4	144 2597 015	RC front panel		1
5	146 1371 005	LED Window		6
6	146 2068 100	Window		2
7	119 0095 005	Rubber key (A)		2
8	119 0096 004	Rubber key (C)		2
9	105 1276 002	Cover		1
10	112 0815 006	Shuttle ring		2
11	112 0816 018	Jog dial		2
12	113 1840 109	Slide knob		2
13	104 0270 006	Foot		4
★ 14	513 3349 112	Caution label		1
SCREWS & NUTS				
101	475 1178 009	Washer 3W-B		6
102	471 9050 020	Screw 3x6 FHHS MFZNII-B		6
103	473 7002 005	Screw 3x6 CBTS (S)-Z		12
104	471 8010 113	Special screw		4
105	471 1832 000	Screw M3 SEMS		1

EXPLODED VIEW OF REMOTE CONTROL UNIT

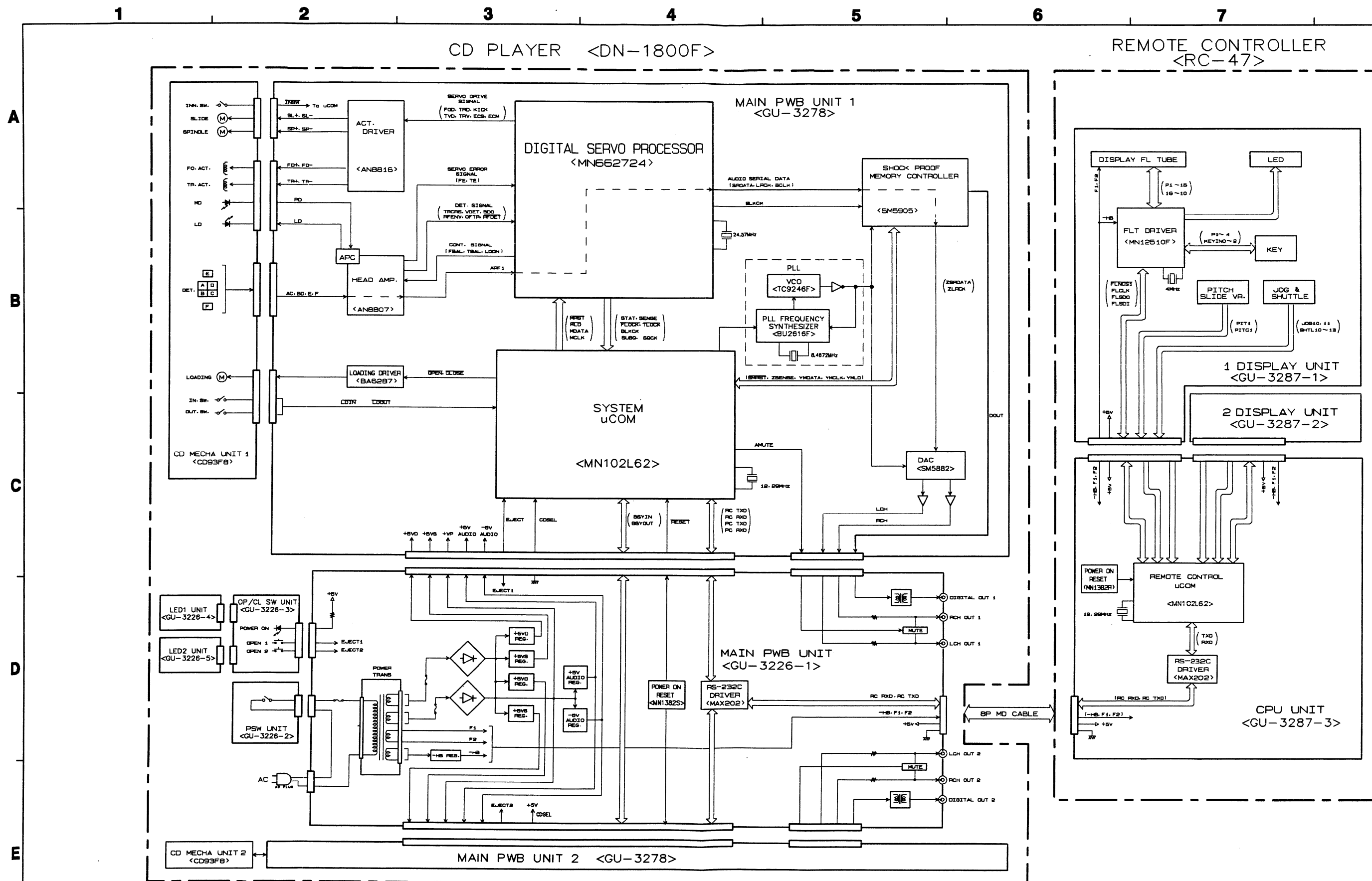




PARTS LIST OF MECHANISM UNIT (CD93F8)

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
Loading Mechanism Section					201	964 0007 011	Motor chassis Ass'y		1
1	964 0001 004	PCB switch Ass'y		1	202	964 0007 105	Motor Ass'y		1
1-1	964 0003 507	Push switch	SW01	1	20	964 0006 009	Screw 2 x 5		2
1-2	964 0003 400	Leaf switch	SW02	1	21	964 0006 106	Screw 1.7 x 2.5		4
3	964 0001 101	Frame chassis		1	22	964 0006 203	Special screw		4
4	964 0001 208	Magnet plate		1					
5	964 0001 305	Rail left Ass'y		1					
6	964 0001 402	Rail right		1					
7	964 0001 509	Chassis stopper		1					
8	964 0001 606	Magnet support		1					
9	964 0001 703	Rubber cushion (Blue)		2					
10	964 0001 800	Rubber cushion (Purple)		2					
11	964 0001 907	Magnet holder		1					
12	964 0002 003	Sheet		1					
13	964 0002 100	Loading gear		1					
14	964 0002 207	Lifter gear		1					
15	964 0002 304	Idler gear A		1					
16	964 0002 401	Idler gear B		1					
17	964 0002 508	Pulley motor		1					
18	964 0002 605	Pulley gear		1					
19	964 0002 702	Square belt		1					
20	964 0002 809	Disk clamp magnet		1					
21	964 0002 906	Lifter mecha		1					
22	964 0003 002	Slide lifter		1					
23	964 0003 109	Table loading		1					
24	964 0003 206	Motor, 3.0V, 0.3W		1					
101	964 0003 303	Loading moter Ass'y		1					
102	964 0005 013	Traverse unit		1					
30	944 0025 219	Screw 3 x 8		1					
31	944 0056 013	Screw 2.6 x 8		4					
32	944 0048 384	Screw 2 x 6		2					
33	964 0004 001	Screw 1.7 x 3.5		2					
34	964 0004 108	Special screw		1					
35	964 0004 205	Screw 3 x 8		1					
36	964 0004 302	Screw 2.6 x 8		1					
Traverse Section									
1	964 0005 107	Laser pickup		1					
2	-	Chassis Ass'y		1					
3	-	Turntable Ass'y		1					
4	964 0005 204	Guide bar		1					
5	964 0005 301	Middle gear		1					
6	964 0005 408	Motor gear		1					
7	964 0005 505	Power gear		1					
8	964 0005 602	Rack plate		1					
9	964 0005 709	PCB mortar		1					
10	-	Motor, 2.0V,0.2W (Spindle Motor)		1					
11	-	Motor, 3.0V,0.3W (Sled Moter)		1					
12	964 0005 806	Leaf switch		1					
13	964 0005 903	Pickup shaft		1					

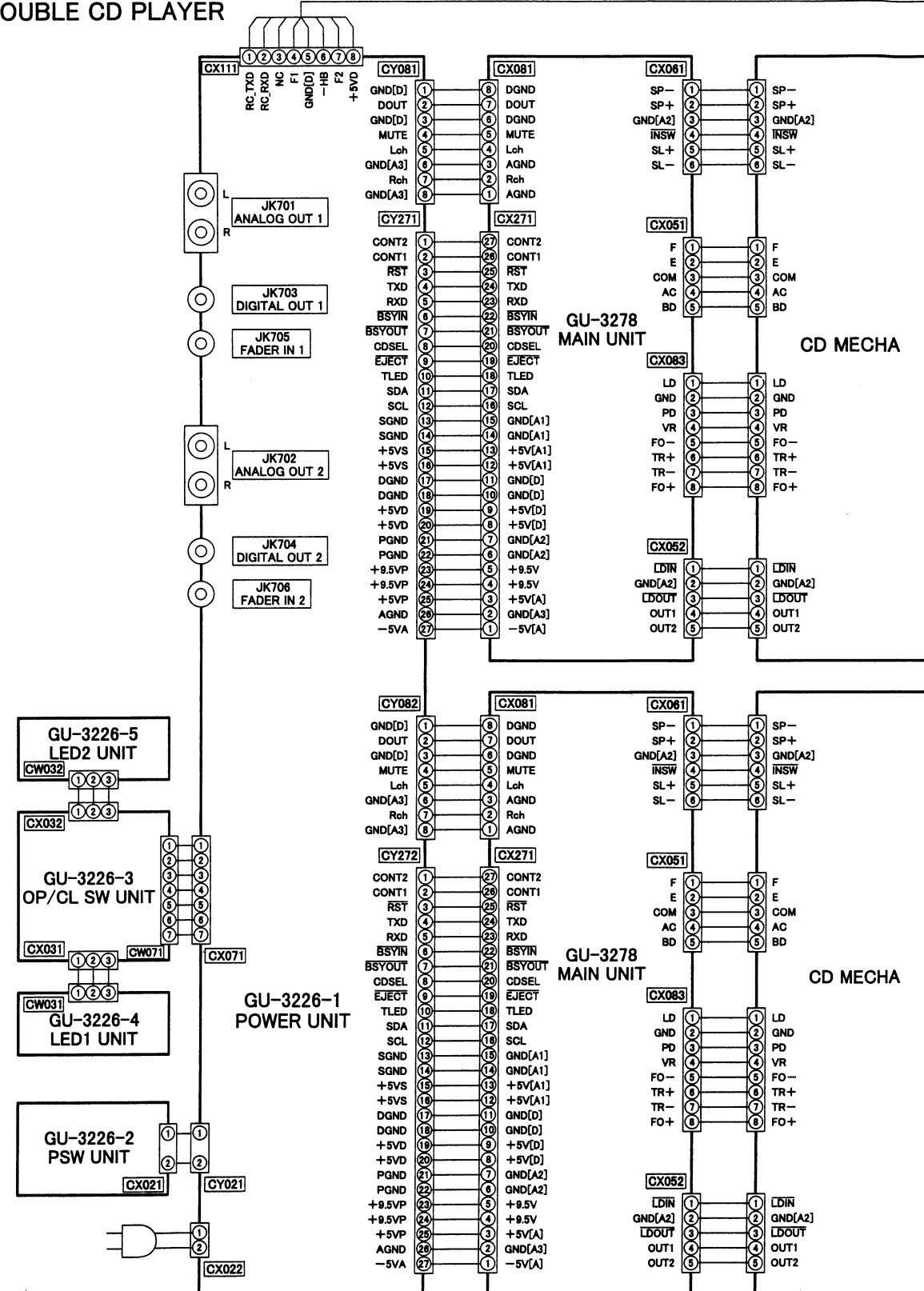
BLOCK DIAGRAM



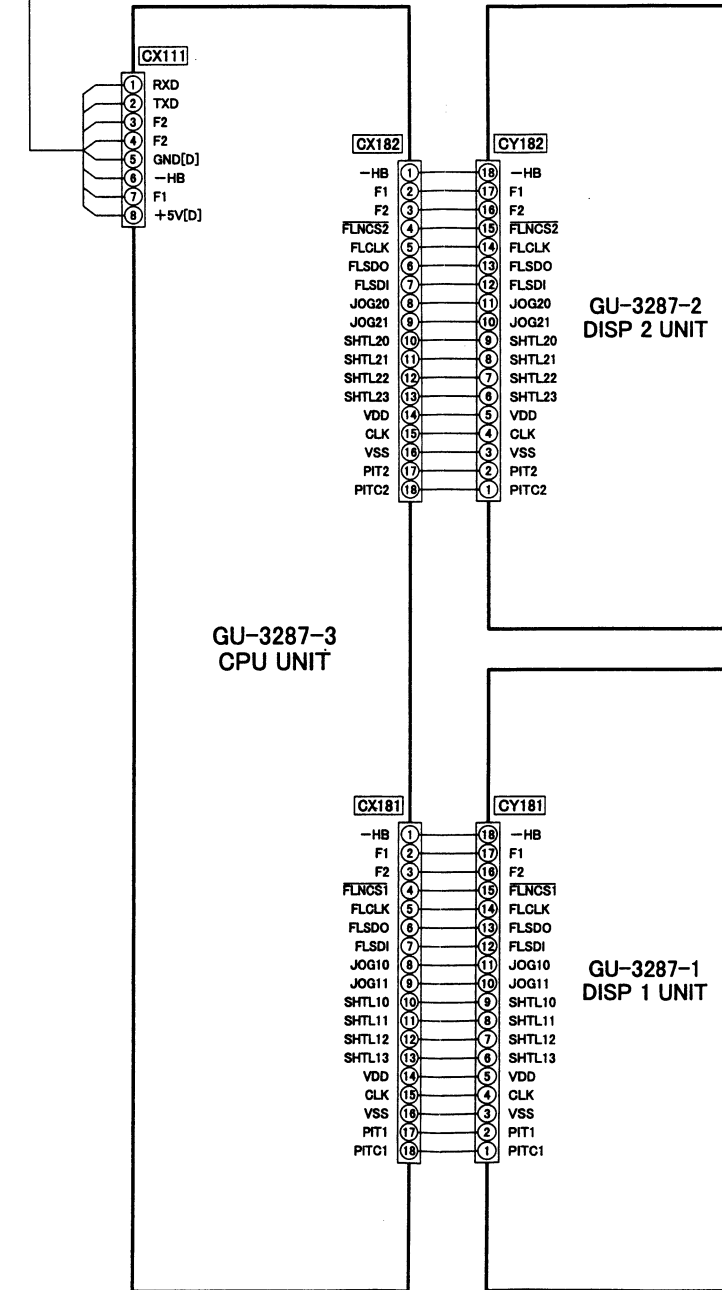
WIRING DIAGRAM

1 2 3 4 5 6 7 8

DN-1800F DOUBLE CD PLAYER



RC-47 REMOTE CONTROLLER



A

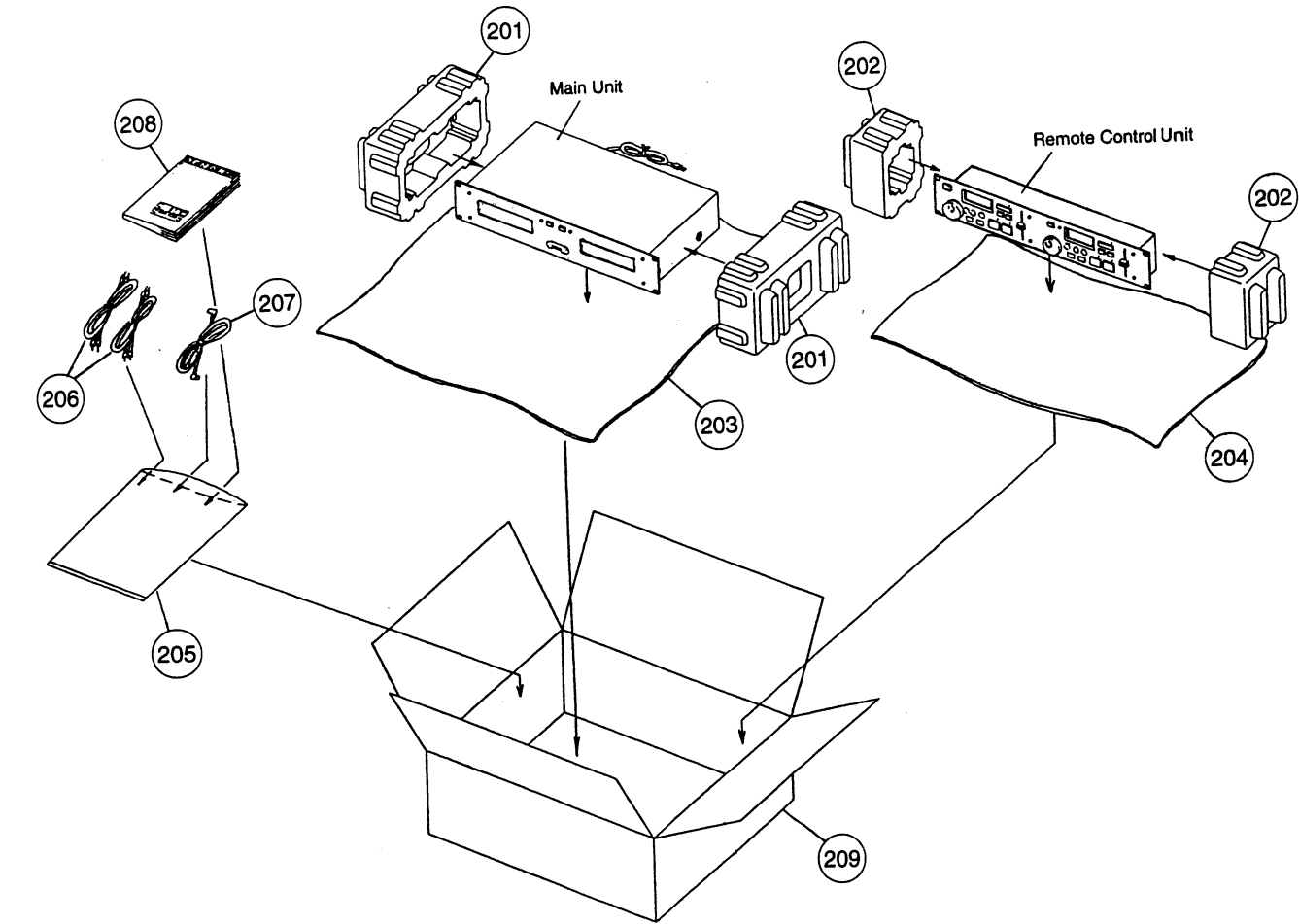
B

C

D

E

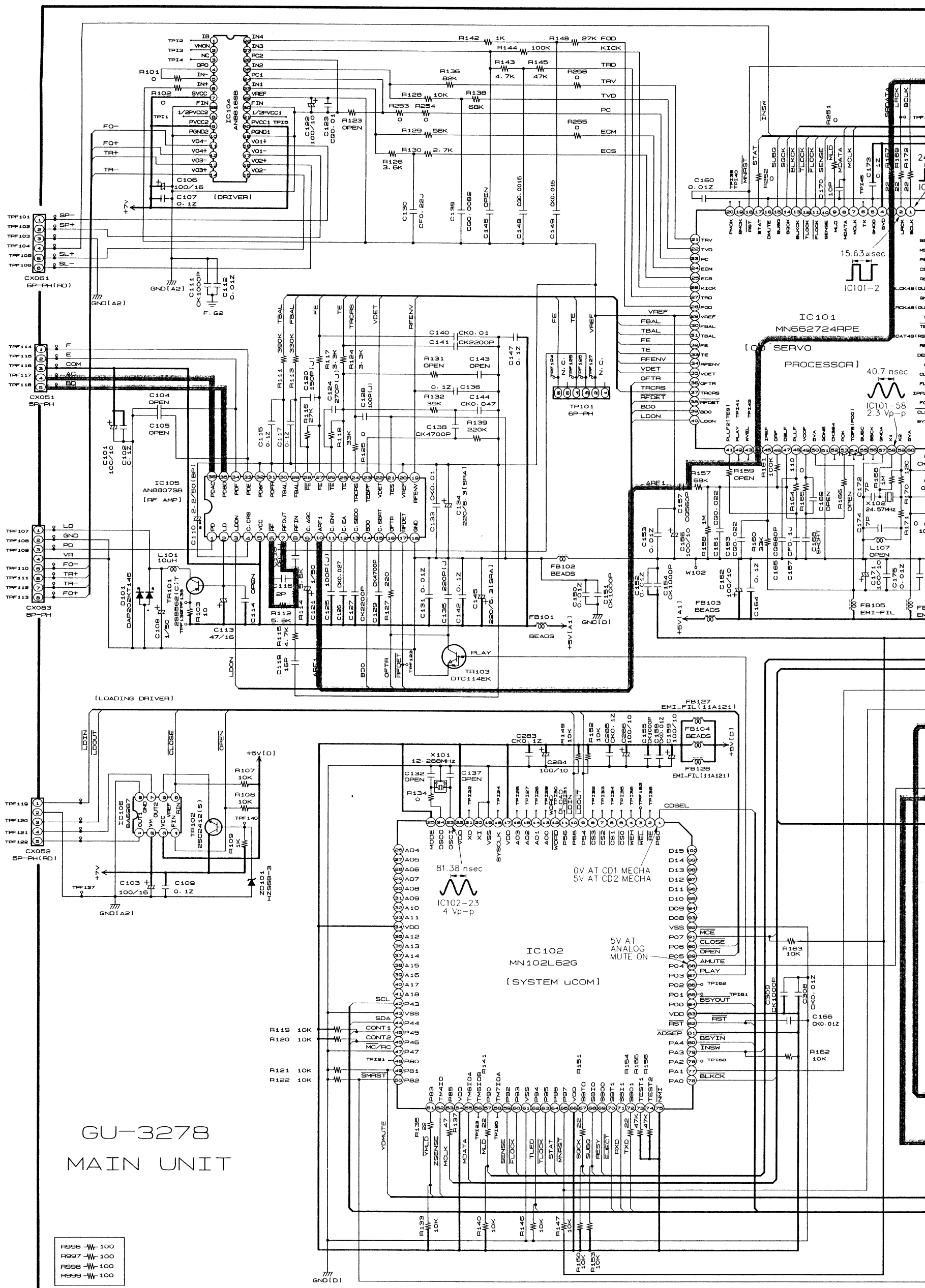
PACKING & ACCESSORIES



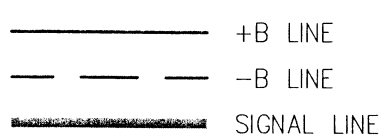
PARTS LIST OF PACKING & ACCESSORIES

Note: The symbols in the column "Remarks" indicate the following destinations.
E3: U.S.A./Canada model
E2: Europe model
E1: U.K. model

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
201	503 1001 400	Cushion	for main unit	2	207	204 2750 002	8P MD connector cord (L)		1
202	503 1010 307	Cushion (RC)	for remote control unit	2	208	511 3584 007	Instruction manual		1
203	505 0102 092	Stylen paper	for main unit	1	209	501 1982 099	Carton case		1
204	505 0102 021	Stylen paper	for remote control unit	1	★ 210	513 3348 113	Caution label (Cord)		1
205	505 0038 030	Poly. cover		1	★ 211	513 2303 007	Version label		2
206	203 2360 004	2P pin cord		2	★ 212	515 0692 101	DEL warranty com.	for E3	1

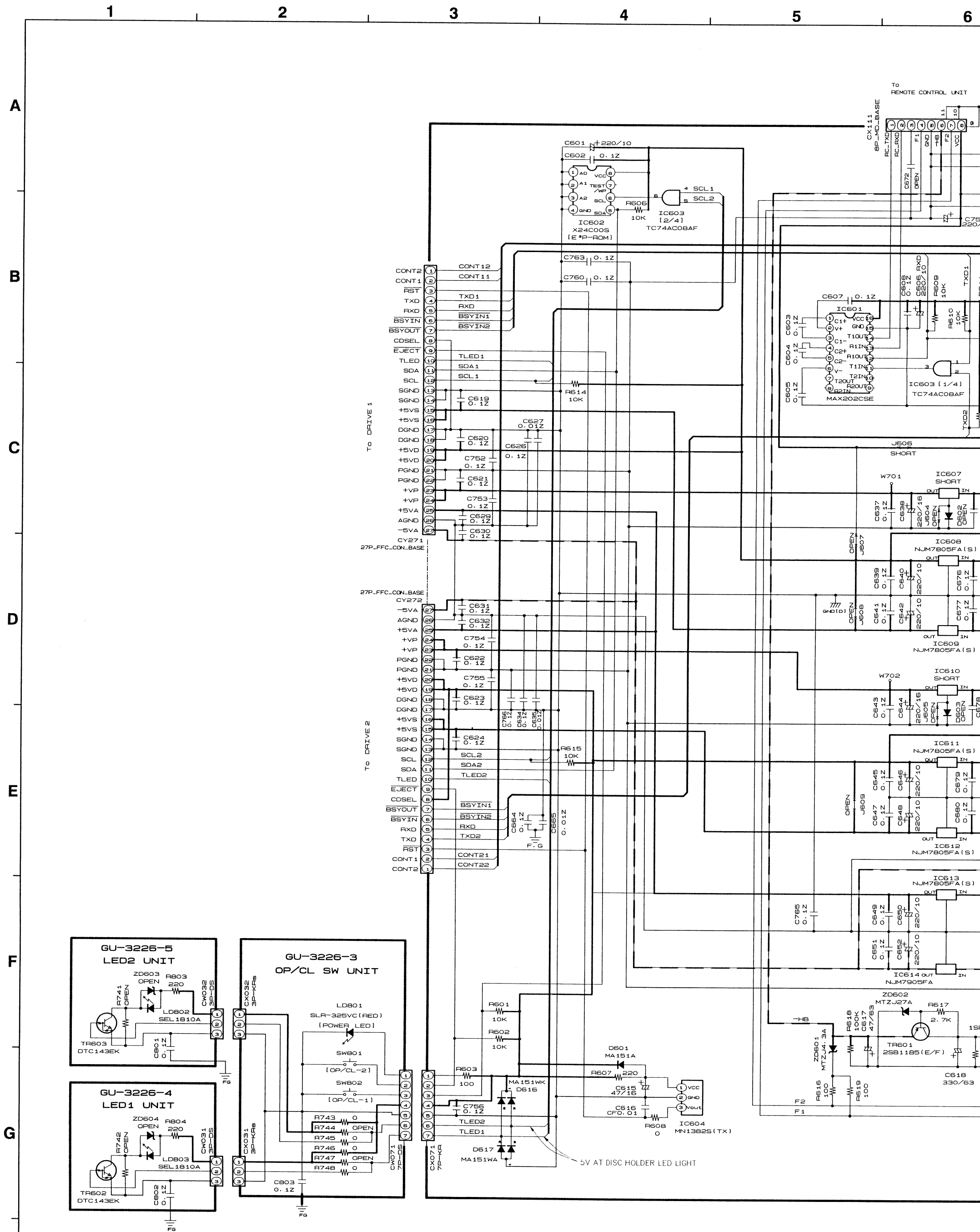


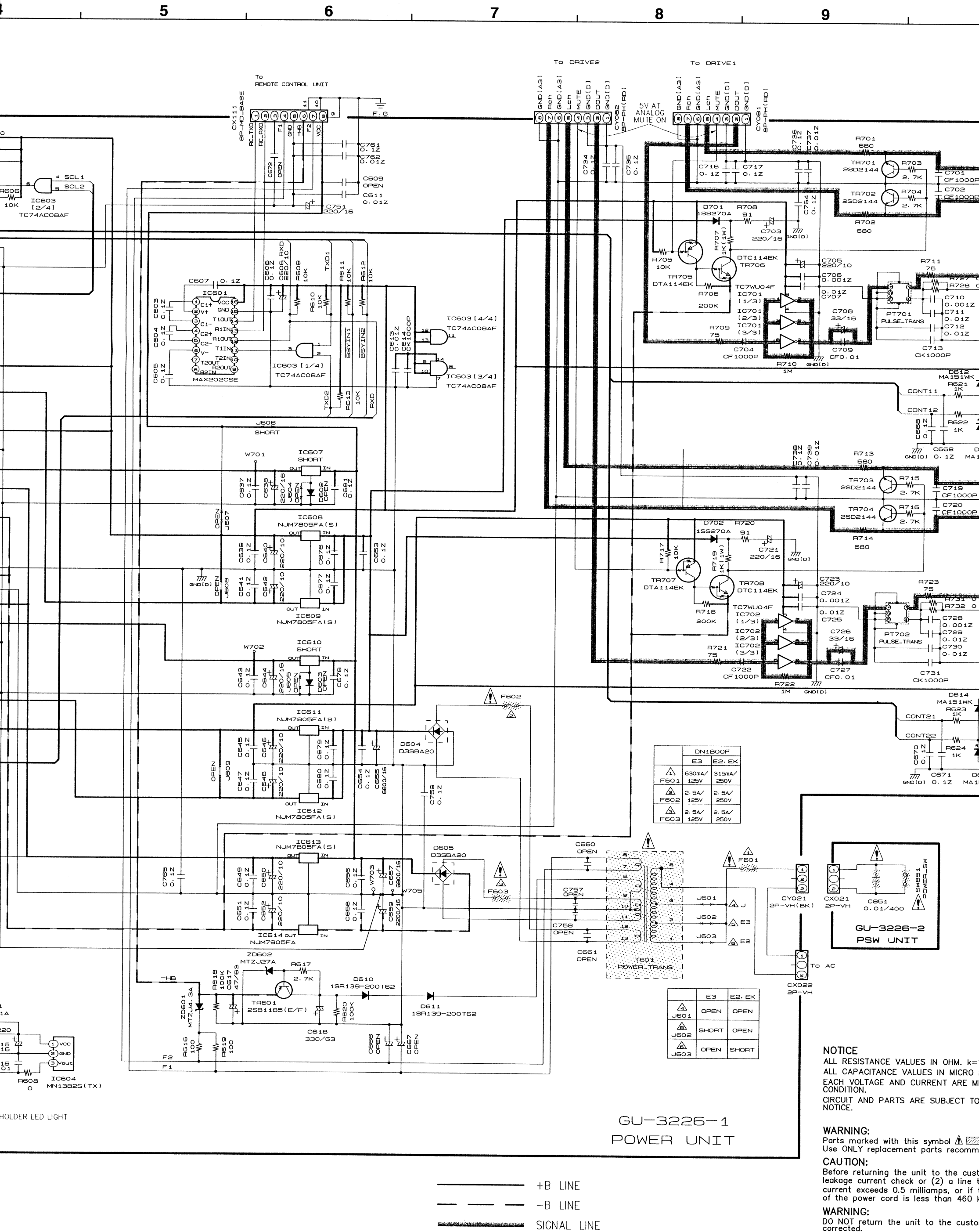
R996 - 100
R997 - 100
R998 - 100
R999 - 100

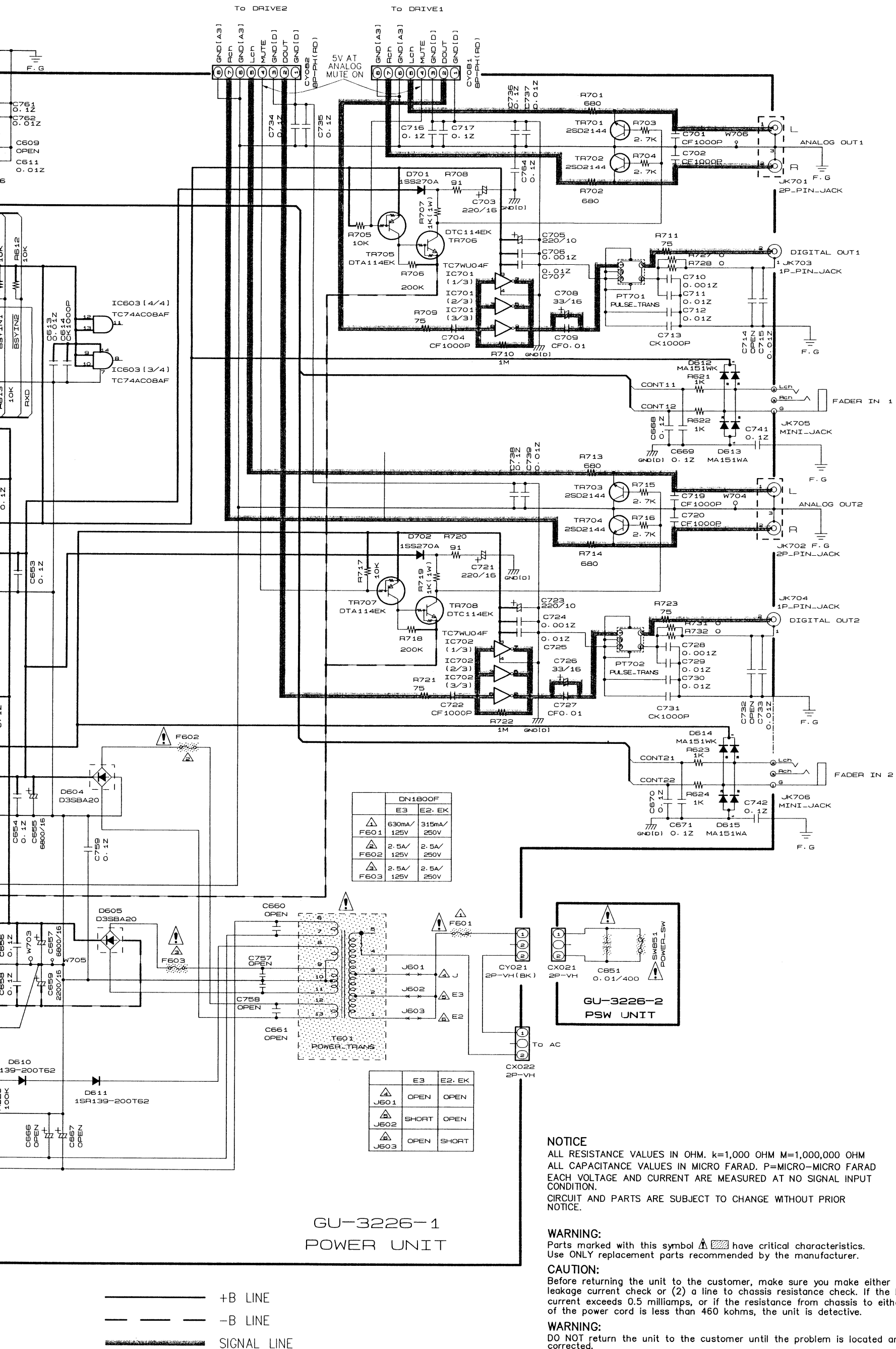




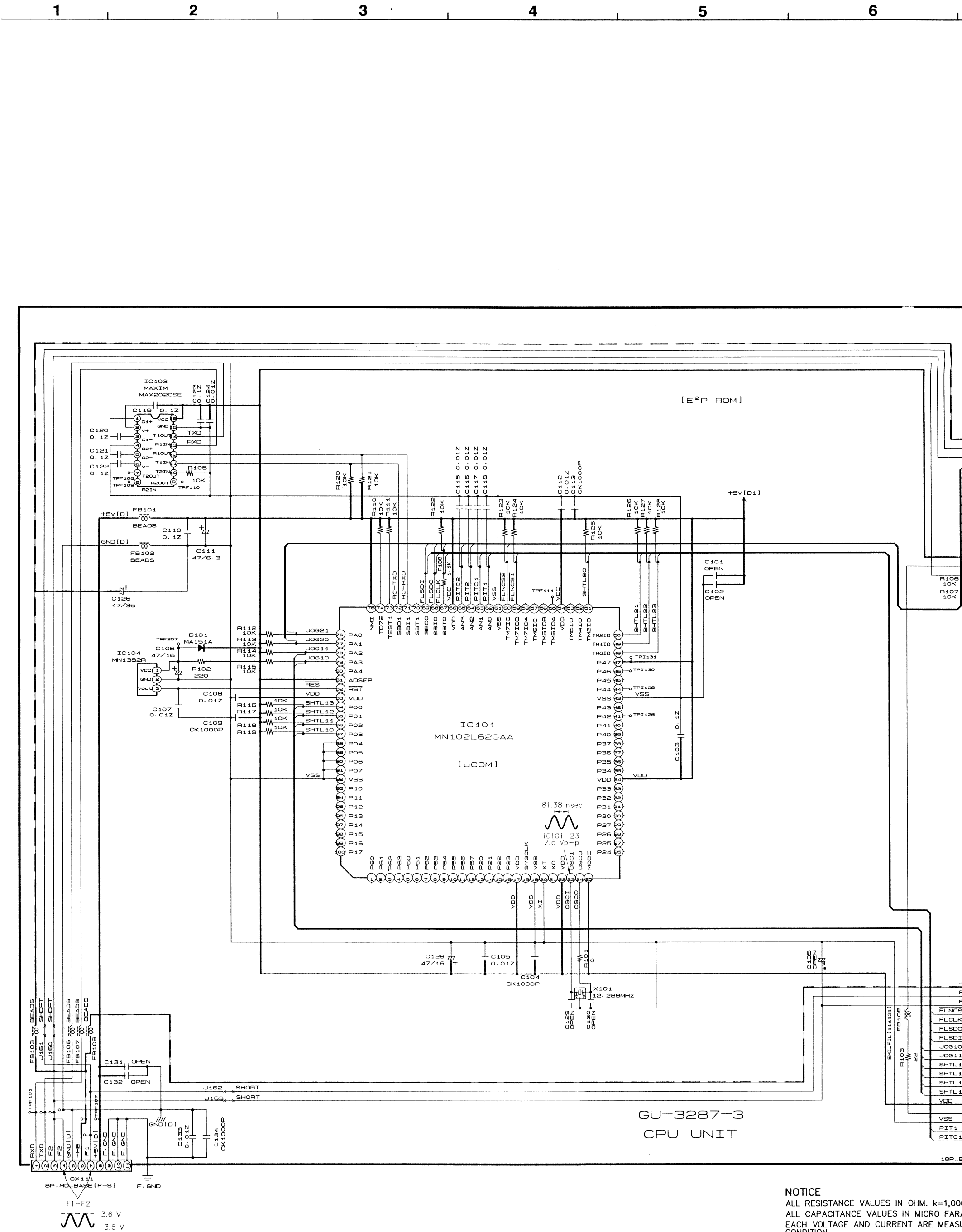
SCHEMATIC DIAGRAMS (2/3)

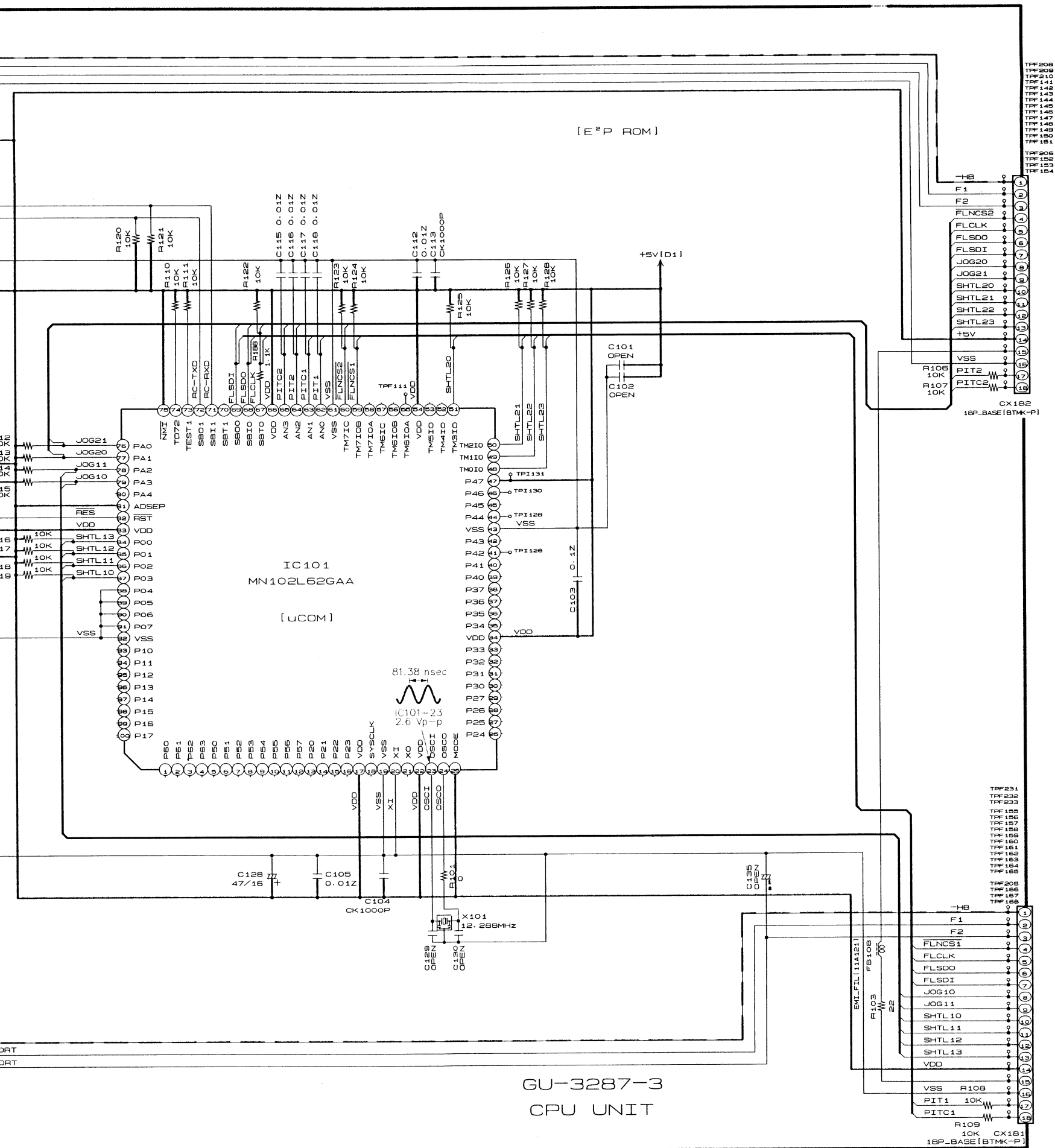






SCHEMATIC DIAGRAMS (3/3)





NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT
CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
NOTICE.

WARNING:

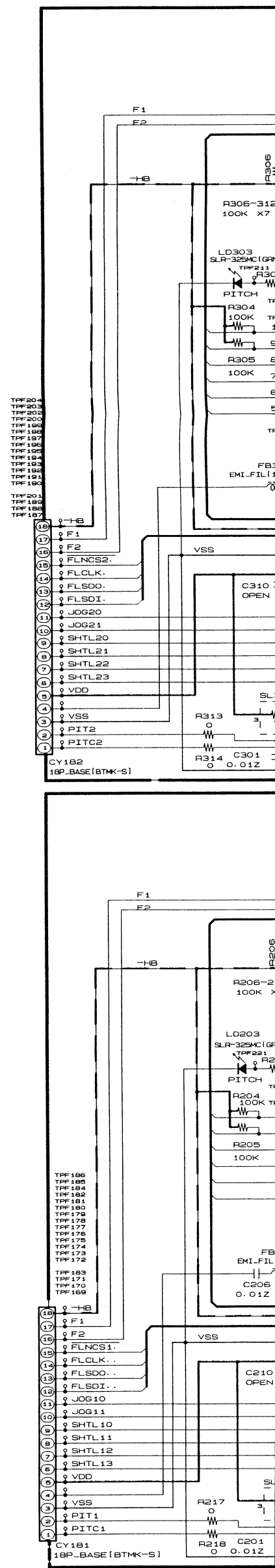
Parts marked with this symbol Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

Before returning the unit to the customer, perform (1) a leakage current check or (2) a line current check. If the line current exceeds 0.5 milliamps, or if the power cord is less than 46 inches long, the unit must be repaired.

WARNING:

DO NOT return the unit to the customer until the fault is corrected.





SUBJECT TO CHANGE WITHOUT PRIOR

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAMS (3/3)